



Solving environment-related business problems worldwide

www.deltaenv.com

27141 Aliso Creek Road • Suite 270
Aliso Viejo, California 92656 USA

949.362.3077 800.477.7411
Fax 949.362.0290

December 22, 2005

Mr. Jackson Crutsinger
San Bernardino County Fire Department
Hazardous Materials Division
620 South E Street
San Bernardino, California 92415-0153

Sent via UPS

Subject: Confirmation Assessment Report and Site Closure Request
ARCO Facility No. 3081
12201 Mountain Avenue
Chino, California

Dear Mr. Crutsinger:

Delta Environmental Consultants, Inc. (Delta), on behalf of Atlantic Richfield Company, has prepared this *Confirmation Assessment Report and Site Closure Request* for ARCO Facility No. 3081, located at 12201 Mountain Avenue in the City of Chino, California (the site) (Figure 1). Field activities were conducted in accordance with Delta's *Summary of Soil Vapor Extraction Activities and Confirmation Soil Boring Proposal*, dated September 20, 2005. The purpose of the confirmation soil boring was to evaluate present soil conditions beneath the site and determine if additional remedial action is warranted.

SITE DESCRIPTION

The site is a retail gasoline station with an AM/PM Mini-Mart and is located on the eastern side of Mountain Avenue in the city of Chino, California (Figure 2). Current activities at the site include retail sales and gasoline dispensing. Improvements at the site include four 10,000-gallon underground storage tanks (USTs), four gasoline fuel dispensers, and the station/retail store building.

SITE GEOLOGY AND HYDROGEOLOGY

The site is located in the central part of the San Gabriel Valley approximately three miles northeast of the Puente Hills at an elevation of approximately 835 feet above mean sea level. The area of the site is underlain predominately by sand and silt of Holocene age. Subsurface investigations at the site indicate that the sedimentary section consists of silty sand and sand containing trace amounts of clay and/or gravel to the maximum depth explored of 90 feet below ground surface (bgs) (Pinnacle, 1999).

Groundwater was not encountered beneath the site within 90 feet from ground surface. City of Chino Well No. 11, located approximately ¼ mile southeast of the station, is the public water supply well nearest to the site. In June 1998, depth to groundwater in the well was 247 feet bgs. The regional groundwater flow direction is toward the south-southwest (Pinnacle, 1999).

A member of:



REMEDIAL ACTIVITIES

Summary of Historical SVE Activities

The remediation history of the site is summarized as follows:

- Between October 23 and 25, 1995, Brown and Caldwell (BC) performed a soil vapor extraction (SVE) pilot test at the site. The results of the test indicated a radius of influence at the site of approximately 25 to 30 feet (Brown and Caldwell, 1996).
- In June 1999, Pinnacle Environmental Solutions (Pinnacle) conducted additional SVE testing, which lasted eight days. Pinnacle estimated that 156 pounds of vapor-phase hydrocarbons were removed during the test conducted by BC in October 1995 and an additional 16.24 pounds of vapor-phase hydrocarbons were removed during the test conducted by Pinnacle in June 1999 (Pinnacle, 1999).
- On April 26, 2000, The Shaw Group Inc. (Shaw) submitted a Remedial Action Plan (RAP) for the site, following the RAP approval Shaw operated the SVE system from May 5, 2001 to April 18, 2002 using an internal combustion engine and SVE wells VEW-1, VEW-2, VEW-3, VEW-5, BC1-D, and BC1-M. Due to difficulties with the SVE equipment, the actual operating time between May 2001 and April 2002 was equivalent to approximately 80 days (Delta, 2002). Laboratory analysis of vapor samples collected prior to the temporary shut down of the SVE system on April 18, 2002, indicated that vapor concentrations of volatile fuel hydrocarbons (VFH) ranged from not detected (less than 2.4 parts per million by volume (ppmv)) in well VEW-2 to 72 ppmv in well VEW-5; vapor concentrations of benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE) were not detected in any of the well head samples collected, with the exception of MTBE vapor concentrations of 51, 4.7, and 14 ppmv of in wells VEW-2, VEW-5, and BC1-D, respectively (Table 1). During the period between May 5, 2001 and April 18, 2002 the SVE system operated for 1,929 hours and removed 936.4 pounds of vapor-phase hydrocarbons (Delta, 2002).
- On July 29, 2002, Delta submitted the *Amendment to the Remedial Action Plan* (Amendment) proposing additional soil remediation by mean of SVE from wells VEW-2, VEW-5, and BC1-D, using an electrical catalytic oxidizer (Delta, 2002). Following receipt of all required permits and performance of all required inspections, an Airex Katox 100 C55 catalytic oxidizer SVE system was started on May 25, 2005 (Delta, 2005). Between May 25 and August 25, 2005, the SVE system operated 969 hours, during which period Delta estimated that 2.51 pounds of vapor-phase hydrocarbons were removed by the SVE system (Table 2). The SVE system was shut down on August 25, 2005, after having operated continuously for a period of 30 days, in accordance with Amendment (Delta, 2002).

Details of Recent SVE System Operation

The SVE system at the site was started on May 25, 2005, at which time influent and effluent vapor samples were collected. Following startup, individual wellhead vapor samples were also collected from wells VEW-1, VEW-2, VEW-3, VEW-5, BC1-M, and BC1-D. The SVE system shut down automatically after operating for approximately six hours due to software issues of the programmable logic controller (PLC) (Delta, 2005). The SVE system was restarted on July 14, 2005, but automatically shut down again on July 21, 2005, due to high temperature conditions (Delta, 2005). The system was restarted on July 25, 2005, influent and effluent vapor samples were collected again on July 28, 2005. The SVE system ran continuously during the period from July 25, 2005 through August 25, 2005, when the system was shut down. Prior to shutting down the SVE system on August 25, 2005, vapor samples were collected from the system influent and effluent, and from individual wells VEW-1, VEW-2, VEW-3, VEW-5, BC1-M, and BC1-D (Delta, 2005).

Vapor samples laboratory analytical results indicated that benzene and MTBE were not detected in any of the samples collected from the SVE system influent vapor stream or any of the individual wells (Table 1). VFH vapor concentrations at the system influent ranged from 2.6 ppmv on May 25, 2005 to 7.1 ppmv on July 28 and August 25, 2005. VFH were detected only on August 25, 2005, in the vapor samples collected from individual wells, concentrations were 6.0, 3.7, and 2.6 ppmv in wells BC1-D, VEW-2, and VEW-5, respectively. Vapor samples analytical results are presented in Table 1. Well locations are shown in Figure 2.

CONFIRMATION ASSESSMENT FIELD ACTIVITIES

Confirmation Soil Boring Drilling and Sampling

In order to determine if residual hydrocarbon concentrations are still present in soil beneath the site and to evaluate if additional remedial action at the site is necessary, the drilling and sampling of one confirmation soil boring (CB-1) was conducted on November 14, 2005. The one soil boring was advanced in the vicinity of the existing USTs (Figure 2). Prior to the drilling activities, Pacific Coast Locators of La Crescenta, California was retained to locate potential underground utilities. In addition, the boring was cleared of utilities to approximately five feet bgs with a truck-mounted VacMasters Air Vacuum Extraction System provided by Cascade Drilling, Inc. (Cascade) of Norwalk, California.

The soil boring was drilled, under the supervision of a Delta geologist, using a CME 85 drill rig equipped with eight-inch diameter hollow stem augers provided by Cascade. Soil samples were collected from boring CB-1 at five foot intervals from 5 to 65 feet bgs. Samples were collected using a California-type, split-spoon sampler equipped with three precleaned brass sleeves. The ends of the lower-most, intact sleeve from each sample interval were lined with Teflon™ sheets, capped, and sealed. Each sample was labeled, placed in a resealable plastic bag, and stored in an ice-chilled cooler to be transported to a laboratory for chemical analysis. Chain-of-custody procedures were followed from the time the samples were collected until the samples were relinquished to the laboratory. Soil contained in the remaining brass sleeves was classified for soil type and screened for volatile organic compounds using a photo ionization detector (PID). A qualified Delta geologist, working under the supervision of a California licensed Professional Geologist, logged the borings in accordance with the Unified Soil Classification System. Soil types, blow counts, and PID values are presented in the soil boring log provided in Attachment A.

Chemical Analysis

Soil samples collected during this investigation were submitted to Del Mar Analytical of Irvine, California, a laboratory certified by the California Department of Health Services. Soil samples were analyzed for petroleum hydrocarbons quantified against a gasoline standard (TPHg) according to Environmental Protection Agency (EPA) Modified Method 8015 and for BTEX and fuel oxygenates¹ according to EPA Method 8260B.

Waste Disposal

Soils and decontamination water generated during drilling and sampling activities were contained in Department of Transportation (DOT) approved 55-gallon drums and temporarily stored on-site, pending soil sample analytical results. On December 19, 2005, the drums were hauled to a State-licensed disposal facility. Waste manifest documentation of proper transportation and disposal will be submitted under separate cover.

¹ Methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), tert-butanol (TBA), and ethanol

CONFIRMATION ASSESSMENT SUMMARY OF FINDINGS

Subsurface Conditions

Consistent with the lithology encountered in the course of previous subsurface investigations, soil types logged during drilling and sampling indicate that the soil in the area of boring CB-1 is composed primarily of fine grained sand and silty sand containing minor amounts of clay and/or gravel. Groundwater was not encountered in the boring. Detailed lithologic descriptions are presented on the boring log provided in Appendix A.

Soil Analytical Results

Analytical results for the soil samples collected from confirmation boring CB-1 indicate that TPHg, BTEX, and fuel oxygenates were not detected above the laboratory reporting limits in any of the samples collected. The location of confirmation soil boring CB-1 is shown in Figure 2, the soil sample analytical results are summarized in Table 3, and the complete laboratory analytical report is provided in Attachment B.

The laboratory analytical report (Attachment B) reveals that a concentration of 0.0019 mg/kg of m,p-xylenes was detected in the soil sample collected from 50 feet bgs; however, concentrations of o-xylene were not detected in the same sample. Concentrations of total xylenes in all the soil samples collected, including the sample collected from 50 feet bgs, remained below the laboratory reporting limits (Table 3).

DISCUSSION

Review of the results from this confirmation assessment together with historical data has determined the following:

- The historical soil sample analytical results presented in Table 4 indicate that in 1993 and 1994 soil beneath the site was found to be impacted by hydrocarbons in the area of the USTs, specifically in the vicinity of boring B-2 (Figure 2). However, analytical results for the soil samples collected on November 14, 2005, from confirmation boring CB-1, located approximately 10 feet from boring B-2 and less than 15 feet of the USTs (Figure 2), reveal that hydrocarbon concentrations are no longer detected above the laboratory detection limits (Table 3) in the soil in the area of the USTs and boring B-2.
- Review of the SVE system operation indicates that a total of 1,111 pounds of vapor-phase hydrocarbons have been removed from the soil between April 1996 and August 2005. Historically, vapor-phase hydrocarbons removal by SVE has occurred during four separate periods as follows: 156 pounds in April 1996 (Pinnacle, 1999), 16.2 pounds in June 1999 (Pinnacle, 1999), 936 pounds between May 2001 and April 2002 (Delta 2002), and 2.5 pounds between May and August 2005 (Table 2). Further, the SVE system analytical data summarized in Table 1 indicate that vapor-phase concentrations of benzene and MTBE are no longer detected in soil beneath the site, and VFH vapor-phase concentrations are below 10 ppmv.

CONCLUSIONS

Based upon the above discussed and summarized SVE system historical data (Tables 1 and 2) and the November 2005 soil confirmation assessment data (Table 3), it is Delta's opinion that:

- Soil contamination discovered beneath the site in the 1990s has been remediated to the extent feasible. After historically recovering more than 1,100 pounds of vapor-phase hydrocarbons, the SVE system hydrocarbon removal rate during its last 30 consecutive days of operation, July 25 to August 25, 2005, was less than 1 pound per day (Table 2).

Confirmation Assessment Report and Site Closure Request

ARCO Facility No. 3081

Chino, California

Page 5

- Any residual hydrocarbons remaining in the soil beneath the site are not a potential threat to the ground water resources or a risk to human health or the environment.

REQUEST FOR CASE CLOSURE

Based on the above listed conclusions, Delta, on behalf of Atlantic Richfield Company, respectfully requests that site closure be granted and no further action be required at ARCO Facility 3081.

REMARKS/SIGNATURES

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

If you have any questions or comments regarding this report, please contact Fabio Minervini at (949) 860-0212 or Bobby Lu of Atlantic Richfield Company at (714) 228-6783.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.



Fabio M. Minervini, P.G.
Project Manager
California Professional Geologist No. 7861

12/21/05
Date



| | | |
|--------------|--------------|---|
| Attachments: | Figure 1 | Site Location Map |
| | Figure 2 | Site Map with Confirmation Soil Boring Location |
| | Table 1 | Historical SVE System Vapor Sample Analytical Results |
| | Table 2 | 2005 SVE System Performance Data |
| | Table 3 | Confirmation Soil Boring Analytical Results |
| | Table 4 | Historical Soil Boring Analytical Results |
| | Attachment A | Soil Boring Log |
| | Attachment B | Laboratory Analytical Report |

cc: Mr. Bobby Lu, Atlantic Richfield Company, La Palma, California

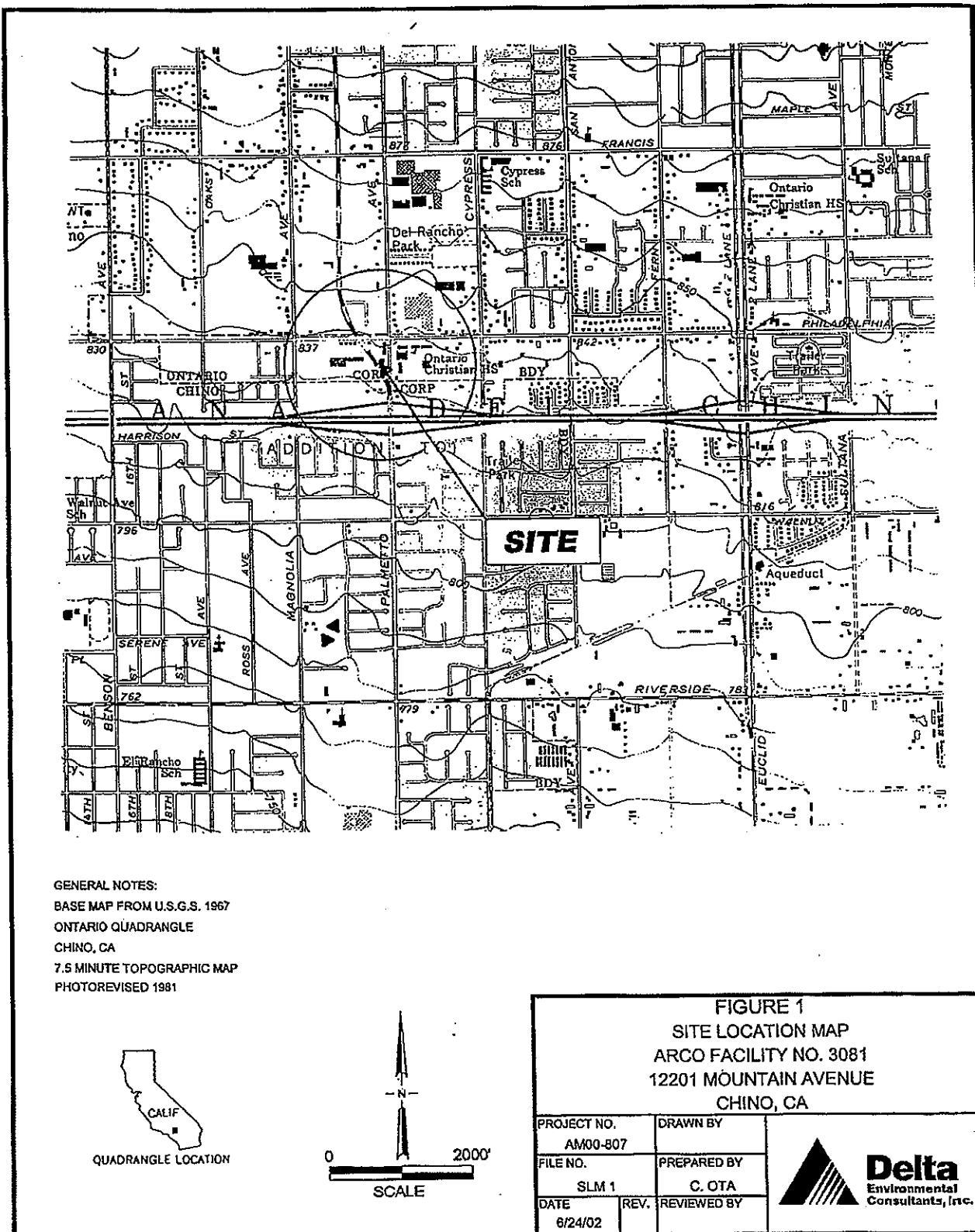
REFERENCES

Brown and Caldwell, 1996, Extended Vapor Extraction Tests, ARCO Station 3081, dated April 10, 1996.

Delta Environmental Consultants, Inc., 2002, Amendment to the Remedial Action Plan, ARCO Facility No. 3081, dated July 29, 2002.

Delta Environmental Consultants, Inc., 2005, Summary of Soil Vapor Extraction Activities and Confirmation Soil Boring Proposal, ARCO Facility No. 3081, dated September 20, 2005.

Pinnacle Environmental Solutions, 1999, Vapor Extraction Test Report/Remedial Action Plan, ARCO Service Station 3081, dated July 15, 1999.



GENERAL NOTES:

BASE MAP FROM U.S.G.S. 1967

ONTARIO QUADRANGLE

CHINO CA

7.6 MINUTE TOPOGRAPHIC MAP

7.5 MINUTE TOPOGRAPHIC
QUADRANGLE
1:250,000



QUADRANGLE LOCATION

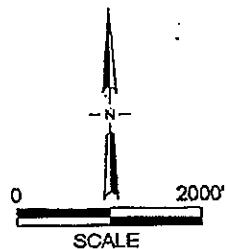


FIGURE 1
SITE LOCATION MAP
ARCO FACILITY NO. 3081
12201 MOUNTAIN AVENUE
CHINO, CA

| | | | |
|-------------|------|-------------|--|
| PROJECT NO. | | DRAWN BY | |
| AM00-807 | | | |
| FILE NO. | | PREPARED BY | |
| SLM 1 | | C. OTA | |
| DATE | REV. | REVIEWED BY | |
| 6/24/02 | | | |

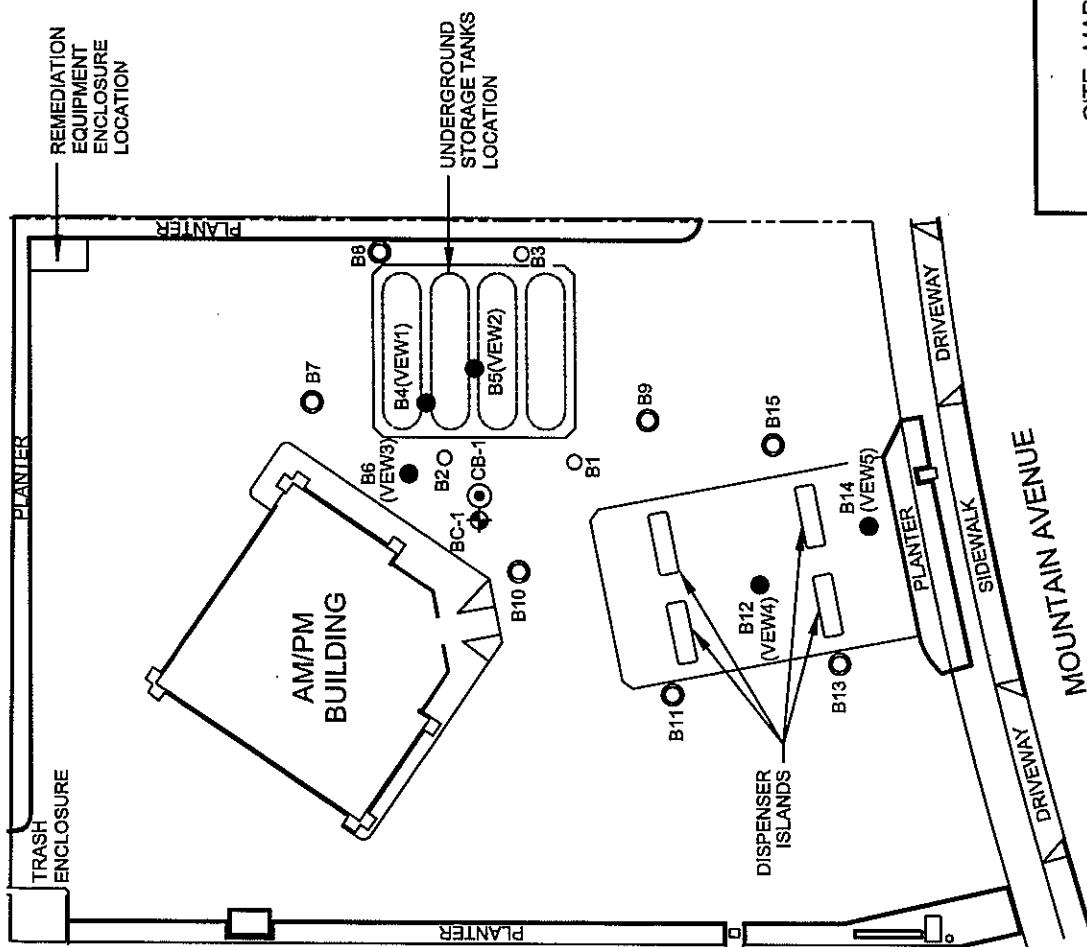


FIGURE 2
SITE MAP WITH CONFIRMATION SOIL
BORING LOCATION
ARCO FACILITY NO. 3081
12201 MOUNTAIN AVENUE
CHINO, CA.

| PROJECT NO. | DRAWN BY | |
|-------------|-------------|-------------|
| G0B6W | K. MARTIN | |
| FILE NO. | PREPARED BY | |
| A0-807-01 | S. NIELSEN | |
| DATE | REV. | REVIEWED BY |
| 07 DEC 05 | 0 | |



TABLE 1
HISTORICAL SVE SYSTEM VAPOR SAMPLE ANALYTICAL RESULTS
ARCO FACILITY NO. 3081
12201 MOUNTAIN AVENUE
CHINO, CALIFORNIA

| Well ID. | Date Sampled | VFH (ppmv) | B (ppmv) | T (ppmv) | E (ppmv) | X (ppmv) | MTBE (ppmv) | DPE (ppmv) | ETBE (ppmv) | TAME (ppmv) | TBA (ppmv) | Ethanol (ppmv) |
|----------|--------------|------------|----------|----------|----------|----------|-------------|------------|-------------|-------------|------------|----------------|
| Influent | 9/27/2001 | 17 | ND<1.6 | ND<1.3 | ND<1.2 | ND<1.4 | NA | NA | NA | NA | NA | NA |
| Influent | 12/13/2001 | 3.2 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | 21 | NA | NA | NA | NA | NA |
| Influent | 3/21/2002 | 19 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.1 | 0.97 | 24 | NA | NA | NA | NA |
| Influent | 4/18/2002 | 8.5 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | 14 | NA | NA | NA | NA | NA |
| Influent | 5/25/2005 | 2.6 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | ND<2.4 | ND<2.7 | ND<33 | ND<160 | ND<160 |
| Influent | 7/28/2005 | 7.1 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | NA | NA | NA | NA | NA |
| Influent | 8/25/2005 | 7.1 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | NA | NA | NA | NA | NA |
| BC1-D | 9/27/2001 | 12 | ND<1.6 | ND<1.3 | ND<1.2 | ND<1.4 | NA | NA | NA | NA | NA | NA |
| BC1-D | 4/18/2002 | 4.1 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | 14 | NA | NA | NA | NA | NA |
| BC1-D | 5/25/2005 | ND<2.4 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | ND<2.4 | ND<2.7 | ND<33 | ND<160 | ND<160 |
| BC1-D | 8/25/2005 | 6.0 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | ND<2.4 | ND<2.7 | ND<33 | ND<160 | ND<160 |
| BC1-M | 9/27/2001 | ND<2.4 | ND<1.6 | ND<1.3 | ND<1.2 | ND<1.4 | NA | NA | NA | NA | NA | NA |
| BC1-M | 4/18/2002 | 9.6 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | ND<2.4 | ND<2.7 | ND<33 | ND<160 | ND<160 |
| BC1-M | 5/25/2005 | ND<2.4 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | ND<2.4 | ND<2.7 | ND<33 | ND<160 | ND<160 |
| VEW-1 | 9/27/2001 | 3.8 | ND<1.6 | ND<1.3 | ND<1.2 | ND<1.4 | NA | NA | NA | NA | NA | NA |
| VEW-1 | 12/13/2001 | 6.7 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | NA | NA | NA | NA | NA |
| VEW-1 | 3/21/2002 | 79 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | 1.6 | NA | NA | NA | NA | NA |
| VEW-1 | 4/18/2002 | 3.8 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | NA | NA | NA | NA | NA |
| VEW-1 | 5/25/2005 | ND<2.4 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | ND<2.4 | ND<2.7 | ND<33 | ND<160 | ND<160 |
| VEW-2 | 9/27/2001 | 70 | ND<1.6 | ND<1.3 | ND<1.2 | ND<1.4 | NA | NA | NA | NA | NA | NA |
| VEW-2 | 12/13/2001 | 3.3 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | 42 | NA | NA | NA | NA | NA |
| VEW-2 | 3/21/2002 | 9.0 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | 1.0 | 39 | NA | NA | NA | NA |
| VEW-2 | 4/18/2002 | ND<2.4 | ND<2.4 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | 51 | NA | NA | NA | NA |
| VEW-2 | 5/25/2005 | ND<2.4 | ND<2.4 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.4 | ND<2.7 | ND<33 | ND<160 | ND<160 |
| VEW-2 | 8/25/2005 | 3.7 | ND<1.2 | ND<1.2 | ND<1.1 | ND<0.92 | 2.2 | ND<2.8 | ND<2.7 | ND<33 | ND<160 | ND<160 |
| VEW-3 | 9/27/2001 | ND<2.4 | ND<1.6 | ND<1.3 | ND<1.2 | ND<1.4 | NA | NA | NA | NA | NA | NA |
| VEW-3 | 4/18/2002 | 5.4 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | ND<2.4 | ND<2.7 | ND<33 | ND<160 | ND<160 |
| VEW-3 | 5/25/2005 | ND<2.4 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | ND<2.4 | ND<2.7 | ND<33 | ND<160 | ND<160 |
| VEW-5 | 9/27/2001 | ND<2.4 | ND<1.6 | ND<1.3 | ND<1.2 | ND<1.4 | NA | NA | NA | NA | NA | NA |
| VEW-5 | 4/18/2002 | 72 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | 4.7 | NA | NA | NA | NA | NA |
| VEW-5 | 5/25/2005 | ND<2.4 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | ND<2.4 | ND<2.7 | ND<33 | ND<160 | ND<160 |
| VEW-5 | 8/25/2005 | 2.6 | ND<1.2 | ND<1.1 | ND<0.92 | 1.9 | ND<2.8 | ND<2.4 | ND<2.7 | ND<33 | ND<160 | ND<160 |
| Effluent | 9/27/2001 | ND<2.4 | ND<1.6 | ND<1.3 | ND<1.2 | ND<1.4 | NA | NA | NA | NA | NA | NA |
| Effluent | 12/13/2001 | 5.0 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | 42 | NA | NA | NA | NA | NA |
| Effluent | 3/21/2002 | 30 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | NA | NA | NA | NA | NA |
| Effluent | 4/18/2002 | 11 | ND<1.2 | ND<1.1 | ND<0.92 | ND<1.8 | 1.1 | NA | NA | NA | NA | NA |
| Effluent | 5/25/2005 | 5.0 | ND<0.059 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | ND<2.4 | ND<2.7 | ND<33 | ND<160 | ND<160 |
| Effluent | 7/28/2005 | 5.9 | ND<0.059 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | NA | NA | NA | NA | NA |
| Effluent | 8/25/2005 | 5.3 | ND<0.059 | ND<1.1 | ND<0.92 | ND<1.8 | ND<2.8 | NA | NA | NA | NA | NA |

TABLE 1
HISTORICAL SVE SYSTEM VAPOR SAMPLE ANALYTICAL RESULTS
ARCO FACILITY NO. 3081
12201 MOUNTAIN AVENUE
CHINO, CALIFORNIA

| Notes: | Notes: | Notes: |
|--------|---|--------|
| VFH | = Volatile fuel hydrocarbons by Environmental Protection Agency (EPA) Method 8015 | |
| B | = Benzene by EPA Method 8260 | |
| T | = Toluene by EPA Method 8260 | |
| E | = Ethylbenzene by EPA Method 8260 | |
| X | = Xylenes by EPA Method 8260 | |
| MTBE | = Methyl-tert-butyl Ether by EPA Method 8260B | |
| DIPE | = Di-isopropyl Ether by EPA Method 8260 | |
| ETBE | = Ethyl ter-Butyl Ether by EPA Method 8260 | |
| TAME | = Tert-Amyl Methyl Ether by EPA Method 8260 | |
| TBA | = Tertiary Butyl Alcohol by EPA Method 8260 | |
| ppmv | = Parts per million by volume | |
| ND<1.6 | = Not detected at or above stated laboratory reporting limit | |
| NA | = Not analyzed or not available | |

TABLE 2
2005 SVE SYSTEM PERFORMANCE DATA
ARCO FACILITY NO. 3081
12201 MOUNTAIN AVENUE
CHINO, CALIFORNIA

| Date Monitored | SVE System Status | Operating Time (hours) | Percent Operating Time (%) | Total System Flow Rate (cfm) 3" | Catalyst Temp. (Deg F) | Influent VOC Conc. (PID-ppmv) | Effluent VOC Conc. (PID-ppmv) | Influent VFH Conc. (lab-ppmv) | Effluent VFH Conc. (lab-ppmv) | Influent Benzene Conc. (ppmv) | Effluent Benzene Conc. (ppmv) | MTBE Conc. (ppmv) | Estimated VFH Conc. (ppmv) | Hydrocarbons Removed (lbs) | Comments | |
|-------------------|-------------------|------------------------|----------------------------|---------------------------------|------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------|----------------------------|----------------------------|-------------------------|-------|
| 25-May-05 | Start | 0 | 0 | 65 | 676 | 23 | 47 | 2.6 | ND<1.2 | ND<2.8 | 5.0 | ND<0.59 | ND<2.8 | 0 | System startup | |
| 01-Jun-05 | Off | 6 | 3 | NA | NA | NA | NA | NA | NA | NA | NA | NA | 2.6 | 0.065 | System off at departure | |
| 14-Jul-05 | Restart | 41 | 3 | 72 | 635 | 8.8 | 7.5 | NA | NA | NA | NA | NA | NA | 2.6 | 0.072 | 0.120 |
| 18-Jul-05 | On | 133 | 96 | 41 | 635 | 10.1 | 7.8 | NA | NA | NA | NA | NA | NA | 2.6 | 0.072 | 0.397 |
| 21-Jul-05 | On | 207 | 100 | 22.9 | 640 | 6.1 | 6.0 | NA | NA | NA | NA | NA | NA | 2.6 | 0.041 | 0.522 |
| 25-Jul-05 | Restart | 223 | 17 | 50 | 762 | 2.7 | 2.8 | NA | NA | NA | NA | NA | NA | 2.6 | 0.023 | 0.587 |
| 28-Jul-05 | On | 297 | 100 | 20.8 | 801 | 8.6 | 5.2 | 7.1 | ND<1.2 | ND<2.8 | 5.9 | ND<0.59 | ND<2.8 | 7.1 | 0.136 | 0.959 |
| 04-Aug-05 | On | 468 | 100 | 15.9 | 764 | 3.9 | 4.3 | NA | NA | NA | NA | NA | NA | 7.1 | 0.057 | 1.361 |
| 11-Aug-05 | On | 635 | 100 | 20.8 | 759 | 5.9 | 2.1 | NA | NA | NA | NA | NA | NA | 7.1 | 0.043 | 1.663 |
| 18-Aug-05 | On | 801 | 99 | 24.2 | 748 | 1.3 | 1.3 | NA | NA | NA | NA | NA | NA | 7.1 | 0.057 | 2.054 |
| 25-Aug-05 | Off | 969 | 100 | 26.2 | 814 | 1.8 | 1.8 | 7.1 | ND<1.2 | ND<2.8 | 5.3 | ND<0.59 | ND<2.8 | 7.1 | 0.066 | 2.514 |
| Shut down system. | | | | | | | | | | | | | | | | |

Notes:
 Benzene = Influent Benzene by BPA Method 8260B
 Benzene = Effluent Benzene by BPA Method 410A (modified)
 cfm = Cubic feet per minute
 Conc. = Concentration
 Cum. = Cumulative
 Deg F = Degrees Fahrenheit
 lab-ppmv = Laboratory reported concentration - parts per million by volume
 lbs = Pounds

MTBE = Methyl tertiary butyl ether by Environmental Protection Agency Method 8260B
 NA = Not applicable/available
 ND = Not detected at or above detection limit
 PID-ppmv = Field reading - parts per million by volume (by photoionization or flame ionization detector)
 SVE = Soil vapor extraction
 Temp = Temperature
 VFH = Volatile fuel hydrocarbons by Environmental Protection Agency (EPA) Method 8015 (modified)
 VOC = Volatile organic compound

TABLE 3
CONFIRMATION SOIL BORING ANALYTICAL RESULTS
ARCO Facility No. 3081
12201 Mountain Ave.
Chino, CA

| Sample I.D. | Date Sampled | Sample Depth | TPHg (mg/kg) | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-Xylenes (mg/kg) | MTBE* (mg/kg) | DIPE** (mg/kg) | ETBE (mg/kg) | TAME (mg/kg) | TBA (mg/kg) | Ethanol (mg/kg) | Comments |
|-------------|--------------|--------------|--------------|-----------------|-----------------|-----------------------|---------------|----------------|--------------|--------------|-------------|-----------------|----------|
| CB-1-5 | 11/14/2005 | 5 | ND<0.40 | ND<0.0026 | ND<0.0026 | ND<0.0026 | ND<0.0052 | NA | ND<0.0066 | ND<0.0066 | ND<0.0066 | ND<0.0066 | ND<0.39 |
| CB-1-10 | 11/14/2005 | 10 | ND<0.40 | ND<0.0020 | ND<0.0020 | ND<0.0020 | ND<0.0040 | NA | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.30 |
| CB-1-15 | 11/14/2005 | 15 | ND<0.40 | ND<0.0020 | ND<0.0020 | ND<0.0020 | ND<0.0040 | NA | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.30 |
| CB-1-20 | 11/14/2005 | 20 | ND<0.40 | ND<0.0019 | ND<0.0019 | ND<0.0019 | ND<0.0038 | NA | ND<0.0047 | ND<0.0047 | ND<0.0047 | ND<0.0047 | ND<0.28 |
| CB-1-25 | 11/14/2005 | 25 | ND<0.40 | ND<0.0026 | ND<0.0026 | ND<0.0026 | ND<0.0051 | NA | ND<0.0064 | ND<0.0064 | ND<0.0064 | ND<0.0064 | ND<0.39 |
| CB-1-30 | 11/14/2005 | 30 | ND<0.39 | ND<0.0017 | ND<0.0017 | ND<0.0017 | ND<0.0033 | NA | ND<0.0042 | ND<0.0042 | ND<0.0042 | ND<0.0042 | ND<0.25 |
| CB-1-35 | 11/14/2005 | 35 | ND<0.36 | ND<0.0018 | ND<0.0018 | ND<0.0018 | ND<0.0035 | NA | ND<0.0044 | ND<0.0044 | ND<0.0044 | ND<0.0044 | ND<0.26 |
| CB-1-40 | 11/14/2005 | 40 | ND<0.40 | ND<0.0018 | ND<0.0018 | ND<0.0018 | ND<0.0035 | NA | ND<0.0044 | ND<0.0044 | ND<0.0044 | ND<0.0044 | ND<0.26 |
| CB-1-45 | 11/14/2005 | 45 | ND<0.34 | ND<0.0018 | ND<0.0018 | ND<0.0018 | ND<0.0036 | NA | ND<0.0045 | ND<0.0045 | ND<0.0045 | ND<0.0045 | ND<0.27 |
| CB-1-50 | 11/14/2005 | 50 | ND<0.37 | ND<0.0019 | ND<0.0019 | ND<0.0019 | ND<0.0038 | NA | ND<0.0048 | ND<0.0048 | ND<0.0048 | ND<0.0048 | ND<0.29 |
| CB-1-55 | 11/14/2005 | 55 | ND<0.39 | ND<0.0019 | ND<0.0019 | ND<0.0019 | ND<0.0037 | NA | ND<0.0046 | ND<0.0046 | ND<0.0046 | ND<0.0046 | ND<0.28 |
| CB-1-60 | 11/14/2005 | 60 | ND<0.40 | ND<0.0016 | ND<0.0016 | ND<0.0016 | ND<0.0032 | NA | ND<0.0039 | ND<0.0039 | ND<0.0039 | ND<0.0039 | ND<0.24 |
| CB-1-65 | 11/14/2005 | 65 | ND<0.40 | ND<0.0022 | ND<0.0022 | ND<0.0022 | ND<0.0043 | NA | ND<0.0054 | ND<0.0054 | ND<0.0054 | ND<0.0054 | ND<0.33 |

Notes: EPA = Environmental Protection Agency

TPHg = Total petroleum hydrocarbons as gasoline

mg/kg = Milligrams per kilogram

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

TBA = Tertiary butanol

ND=Number = Not detected at or above stated reporting limit
NA = Not applicable
TPHg analysis by EPA Method 8015 Modified
*Benzene, Toluene, Ethylbenzene, Xylenes, and MTBE analyses by EPA Method 8021 Modified in August 1999.
MTBE quantified by 8260B.

**Benzene, Toluene, Ethylbenzene, Xylenes, DIPE, ETBE, TAME, MTBE, DIPE, ETBE, TAME, TBA and Ethanol analyses by EPA Method 8260B in November 2004.

TABLE 4
HISTORICAL SOIL BORING ANALYTICAL RESULTS
ARCO FACILITY NO. 3081
12201 MOUNTAIN AVENUE
CHINO, CALIFORNIA

| Sample No. | Date Sampled | Sample Depth (Feet) | TPHg (mg/kg) | Benzene ⁽¹⁾ (mg/kg) | Toluene ⁽¹⁾ (mg/kg) | Ethyl-Benzene ⁽¹⁾ (mg/kg) | Total Xylenes ⁽¹⁾ (mg/kg) | MTBE ⁽¹⁾ (mg/kg) | Reference |
|------------|--------------|---------------------|--------------|--------------------------------|--------------------------------|--------------------------------------|--------------------------------------|-----------------------------|-----------|
| B1-1-5 | 8/30/1993 | 5 | 5.5 | ND<0.05 | 0.051 | ND<0.05 | 0.42 | NA | (A) |
| B1-2-10 | 8/30/1993 | 10 | 7.6 | ND<0.05 | 0.062 | ND<0.05 | 0.31 | NA | (A) |
| B1-3-15 | 8/30/1993 | 15 | 7.4 | ND<0.05 | 0.11 | ND<0.05 | 0.31 | NA | (A) |
| B1-4-20 | 8/30/1993 | 20 | ND<1.0 | 0.064 | 0.1 | ND<0.05 | 0.11 | NA | (A) |
| B2-1-5 | 8/30/1993 | 5 | 6,300 | 17 | 200 | 60 | 570 | NA | (A) |
| B2-2-10 | 8/30/1993 | 10 | 4,000 | 19 | 180 | 59 | 440 | NA | (A) |
| B2-3-15 | 8/30/1993 | 15 | 14,000 | 140 | 810 | 220 | 1,500 | NA | (A) |
| B2-4-20 | 8/30/1993 | 20 | 45 | 2.4 | 5.1 | 0.72 | 4.9 | NA | (A) |
| B2-5-25 | 8/30/1993 | 25 | ND<1.0 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (A) |
| B2-6-30 | 8/30/1993 | 30 | 23 | ND<0.05 | 0.13 | 0.09 | 0.74 | NA | (A) |
| B2-7-35 | 8/30/1993 | 35 | 13 | 2 | 1 | 0.27 | 0.76 | NA | (A) |
| B2-8-40 | 8/30/1993 | 40 | 1.2 | ND<0.05 | ND<0.05 | ND<0.05 | 0.058 | NA | (A) |
| B3-1-5 | 8/30/1993 | 5 | ND<1 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (A) |
| B3-2-10 | 8/30/1993 | 10 | ND<1 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (A) |
| B3-3-15 | 8/30/1993 | 15 | ND<1 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (A) |
| B3-4-20 | 8/30/1993 | 20 | ND<1 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (A) |
| B4-15 | 5/2/1994 | 15 | ND<10 | ND<0.05 | 0.131 | ND<0.05 | 0.363 | NA | (B) |
| B4-20 | 5/2/1994 | 20 | ND<10 | 0.374 | 0.832 | 0.059 | 0.658 | NA | (B) |
| B4-25 | 5/2/1994 | 25 | ND<10 | 0.404 | 0.731 | 0.059 | 0.626 | NA | (B) |
| B4-30 | 5/2/1994 | 30 | ND<10 | 0.146 | 0.178 | ND<0.05 | 0.445 | NA | (B) |
| B4-35 | 5/2/1994 | 35 | ND<10 | 0.427 | 0.157 | 0.061 | 0.413 | NA | (B) |
| B4-40 | 5/2/1994 | 40 | ND<10 | 0.209 | ND<0.05 | ND<0.05 | 0.176 | NA | (B) |
| B5-15 | 5/2/1994 | 15 | ND<10 | ND<0.05 | 0.268 | ND<0.05 | 0.106 | NA | (B) |
| B5-20 | 5/2/1994 | 20 | ND<10 | 0.058 | 0.177 | ND<0.05 | 0.052 | NA | (B) |
| B5-25 | 5/2/1994 | 25 | ND<10 | 0.18 | ND<0.05 | 0.06 | 0.284 | NA | (B) |
| B5-30 | 5/2/1994 | 30 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | 0.07 | NA | (B) |
| B5-35 | 5/2/1994 | 35 | ND<10 | 0.49 | 0.086 | 0.064 | 0.293 | NA | (B) |
| B5-40 | 5/2/1994 | 40 | ND<10 | 0.125 | ND<0.05 | ND<0.05 | 0.053 | NA | (B) |
| B5-45 | 5/2/1994 | 45 | ND<10 | 0.139 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B5-50 | 5/2/1994 | 50 | ND<10 | 0.652 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B5-55 | 5/2/1994 | 55 | ND<10 | 0.09 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B5-60 | 5/2/1994 | 60 | ND<10 | 0.204 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B5-65 | 5/2/1994 | 65 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B5-70 | 5/2/1994 | 70 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B7-5 | 5/3/1994 | 5 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B7-10 | 5/3/1994 | 10 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B7-15 | 5/3/1994 | 15 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B7-20 | 5/3/1994 | 20 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B7-25 | 5/3/1994 | 25 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B7-30 | 5/3/1994 | 30 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B7-35 | 5/3/1994 | 35 | ND<10 | 0.217 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B7-40 | 5/3/1994 | 40 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B7-45 | 5/3/1994 | 45 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B7-50 | 5/3/1994 | 50 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |

TABLE 4
HISTORICAL SOIL BORING ANALYTICAL RESULTS
ARCO FACILITY NO. 3081
12201 MOUNTAIN AVENUE
CHINO, CALIFORNIA

| Sample No. | Date Sampled | Sample Depth (Feet) | TPHg (mg/kg) | Benzene ⁽¹⁾ (mg/kg) | Toluene ⁽¹⁾ (mg/kg) | Ethyl-Benzene ⁽¹⁾ (mg/kg) | Total Xylenes ⁽¹⁾ (mg/kg) | MTBE ⁽¹⁾ (mg/kg) | Reference |
|------------|--------------|---------------------|--------------|--------------------------------|--------------------------------|--------------------------------------|--------------------------------------|-----------------------------|-----------|
| B8-5 | 5/3/1994 | 5 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B8-10 | 5/3/1994 | 10 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B8-15 | 5/3/1994 | 15 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B8-20 | 5/3/1994 | 20 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B8-25 | 5/3/1994 | 25 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B8-30 | 5/3/1994 | 30 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B8-35 | 5/3/1994 | 35 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B8-40 | 5/3/1994 | 40 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B8-45 | 5/3/1994 | 45 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B8-50 | 5/3/1994 | 50 | ND<10 | 0.189 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B8-55 | 5/3/1994 | 55 | ND<10 | 0.153 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B8-60 | 5/3/1994 | 60 | ND<10 | 0.201 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B8-65 | 5/3/1994 | 65 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B8-70 | 5/3/1994 | 70 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B9-5 | 5/3/1994 | 5 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B9-10 | 5/3/1994 | 10 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B9-15 | 5/3/1994 | 15 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B9-20 | 5/3/1994 | 20 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B9-25 | 5/3/1994 | 25 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B9-30 | 5/3/1994 | 30 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B9-35 | 5/3/1994 | 35 | ND<10 | 0.087 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B9-40 | 5/3/1994 | 40 | ND<10 | 0.098 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B9-45 | 5/3/1994 | 45 | ND<10 | 0.127 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B9-50 | 5/3/1994 | 50 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B10-5 | 5/4/1994 | 5 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B10-10 | 5/4/1994 | 10 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B10-15 | 5/4/1994 | 15 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B10-20 | 5/4/1994 | 20 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B10-25 | 5/4/1994 | 25 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B10-30 | 5/4/1994 | 30 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B10-35 | 5/4/1994 | 35 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B10-40 | 5/4/1994 | 40 | ND<10 | 0.074 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B10-45 | 5/4/1994 | 45 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B10-50 | 5/4/1994 | 50 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B11-5 | 5/4/1994 | 5 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B11-10 | 5/4/1994 | 10 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B11-15 | 5/4/1994 | 15 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B11-20 | 5/4/1994 | 20 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B12-5 | 5/4/1994 | 5 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B12-10 | 5/4/1994 | 10 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B12-15 | 5/4/1994 | 15 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B12-20 | 5/4/1994 | 20 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B13-5 | 5/4/1994 | 5 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B13-10 | 5/4/1994 | 10 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | 0.095 | NA | (B) |
| B13-15 | 5/4/1994 | 15 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B13-20 | 5/4/1994 | 20 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B14-5 | 5/4/1994 | 5 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B14-10 | 5/4/1994 | 10 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B14-15 | 5/4/1994 | 15 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B14-20 | 5/4/1994 | 20 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |

TABLE 4
HISTORICAL SOIL BORING ANALYTICAL RESULTS
ARCO FACILITY NO. 3081
12201 MOUNTAIN AVENUE
CHINO, CALIFORNIA

| Sample No. | Date Sampled | Sample Depth (Feet) | TPHg (mg/kg) | Benzene ⁽¹⁾ (mg/kg) | Toluene ⁽¹⁾ (mg/kg) | Ethyl-Benzene ⁽¹⁾ (mg/kg) | Total Xylenes ⁽¹⁾ (mg/kg) | MTBE ⁽¹⁾ (mg/kg) | Reference |
|------------|--------------|---------------------|--------------|--------------------------------|--------------------------------|--------------------------------------|--------------------------------------|-----------------------------|-----------|
| B15-5 | 5/4/1994 | 5 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B15-10 | 5/4/1994 | 10 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B15-15 | 5/4/1994 | 15 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| B15-20 | 5/4/1994 | 20 | ND<10 | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 | NA | (B) |
| BC-1 | 6/7/1995 | 5 | ND<1.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.015 | NA | (C) |
| BC-1 | 6/7/1995 | 10 | ND<1.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.015 | NA | (C) |
| BC-1 | 6/7/1995 | 15 | ND<1.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.015 | NA | (C) |
| BC-1 | 6/7/1995 | 20 | ND<1.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.015 | NA | (C) |
| BC-1 | 6/7/1995 | 25 | ND<1.0 | 0.02 | 0.01 | 0.032 | 0.055 | NA | (C) |
| BC-1 | 6/7/1995 | 30 | ND<1.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.015 | NA | (C) |
| BC-1 | 6/7/1995 | 35 | ND<1.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.015 | NA | (C) |
| BC-1 | 6/7/1995 | 40 | ND<1.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.015 | NA | (C) |
| BC-1 | 6/7/1995 | 45 | ND<1.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.015 | NA | (C) |
| BC-1 | 6/7/1995 | 50 | ND<1.0 | 0.026 | ND<0.005 | ND<0.005 | ND<0.015 | NA | (C) |
| BC-1 | 6/7/1995 | 55 | ND<1.0 | 0.39 | ND<0.005 | ND<0.005 | ND<0.015 | NA | (C) |
| BC-1 | 6/7/1995 | 60 | ND<1.0 | 0.14 | ND<0.005 | ND<0.005 | ND<0.015 | NA | (C) |
| BC-1 | 6/7/1995 | 65 | ND<1.0 | 0.0072 | ND<0.005 | ND<0.005 | ND<0.015 | NA | (C) |
| BC-1 | 6/7/1995 | 70 | ND<1.0 | 0.037 | ND<0.005 | ND<0.005 | ND<0.015 | NA | (C) |
| B-16-5 | 12/9/1998 | 5 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.01 | (D) |
| B-16-10 | 12/9/1998 | 10 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.01 | (D) |
| B-16-15 | 12/9/1998 | 15 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.01 | (D) |
| B-16-20 | 12/9/1998 | 20 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.01 | (D) |
| B-16-25 | 12/9/1998 | 25 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | 0.042/0.046 ⁽²⁾ | (D) |
| B-16-30 | 12/9/1998 | 30 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | 0.32/0.13 ⁽²⁾ | (D) |
| B-16-35 | 12/9/1998 | 35 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | 2.6/3.0 ⁽²⁾ | (D) |
| B-16-40 | 12/9/1998 | 40 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | 0.85/0.47 ⁽²⁾ | (D) |
| B-16-45 | 12/9/1998 | 45 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | 2.1/2.5 ⁽²⁾ | (D) |
| B-16-50 | 12/9/1998 | 50 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | 9.5/10 ⁽²⁾ | (D) |
| B-16-55 | 12/9/1998 | 55 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | 2.9/5.9 ⁽²⁾ | (D) |
| B-16-60 | 12/9/1998 | 60 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | 0.91/1.3 ⁽²⁾ | (D) |
| B-16-65 | 12/9/1998 | 65 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | 0.086/0.018 ⁽²⁾ | (D) |
| B-16-70 | 12/9/1998 | 70 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | 0.1/0.02 ⁽²⁾ | (D) |
| B-16-75 | 12/9/1998 | 75 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | 0.016 | (D) |
| B-16-80 | 12/9/1998 | 80 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | 0.15/0.15 ⁽²⁾ | (D) |
| B-16-85 | 12/9/1998 | 85 | ND<0.1 | 0.051 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.01 | (D) |
| B-16-90 | 12/9/1998 | 90 | ND<0.1 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.01 | (D) |

Abbreviations: TPHg = Total Petroleum Hydrocarbons as gasoline, analyzed by U.S. EPA Method 8015 modified.

ND<1.6 = Not detected at or above stated laboratory reporting limit

NA = Not analyzed or not available

Notes: (1) = Analyzed using U.S. EPA Method 8020/8021B, unless otherwise specified by ⁽²⁾

(2) = Analyzed using EPA Method 8260B.

(A) = W.W. Irwin, Pre-Tank Removal Investigation Report, dated September 7, 1993.

(B) = W.W. Irwin, Site Assessment Report, dated June 14, 1994.

(C) = Brown and Caldwell, Soil Boring and Vadose Well Installation Report, dated October 30, 1995.

(C) = Pinnacle Environmental Solutions, Site Assessment Report and Request for Closure, dated March 18, 1999

ATTACHMENT A

Soil Boring Log

Page 1 of 1

SOIL BORING LOG

N



BORING/WELL NO.
CB-1

PROJECT NO./NAME
GOESW/ARCO Facility No. 3081

DRILLING CONTRACTOR/DRILLER

Cascade Drilling, Inc./Travis Barrow

GEOLOGIST/OFFICE

Susan Nielsen/Orange County

DRILLING EQUIPMENT/METHOD

CM E75/HSA

LOCATION
**12201 Mountain Avenue
Chino, California**

APPROVED BY

SIZE/TYPE OF BIT

8"/Soil

SAMPLING METHOD

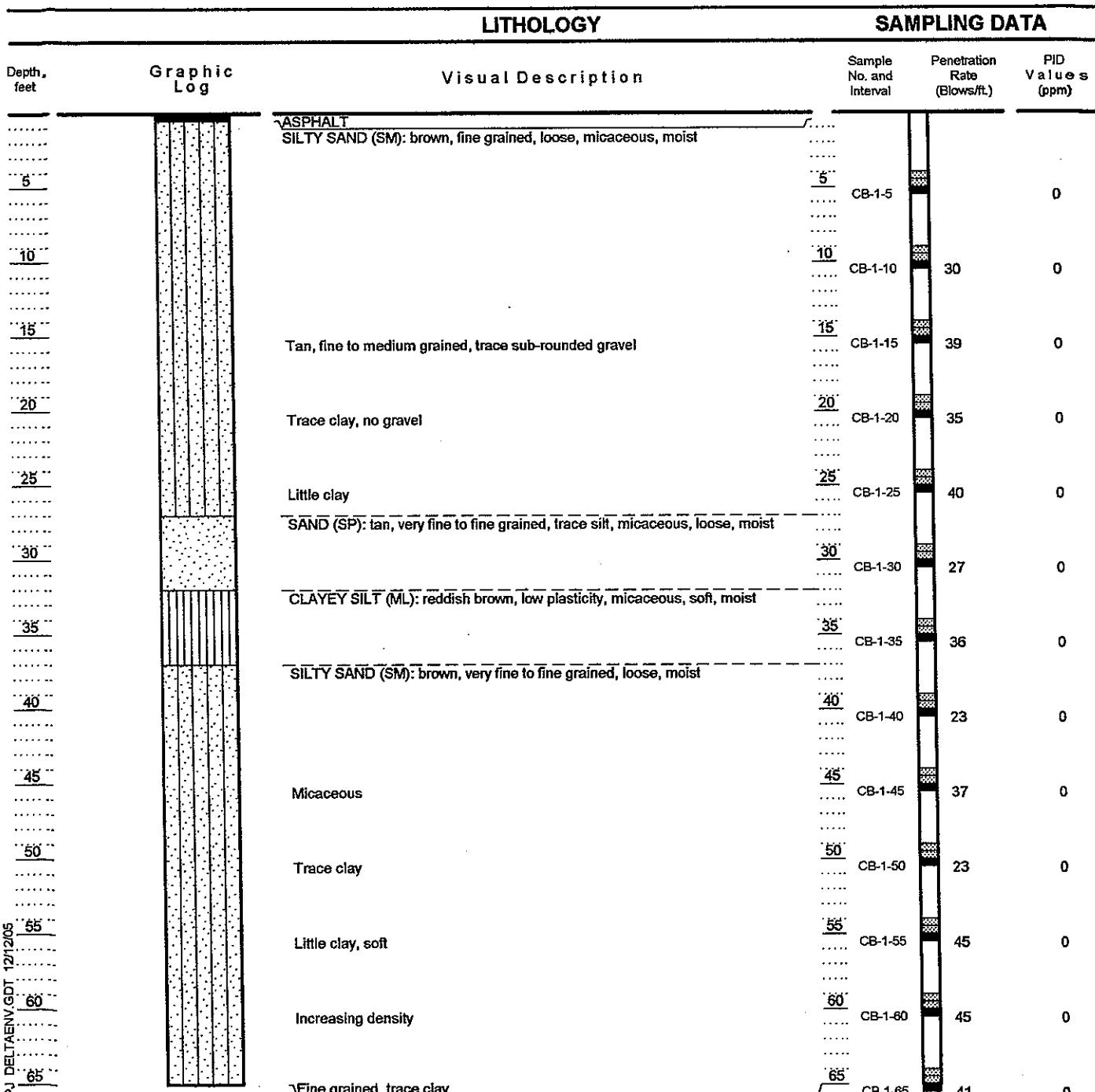
CA SS

START/FINISH DATE

11/14/05-11/14/05

TOTAL DEPTH

65.0



Boring terminated at 65 feet below ground surface (ft bgs). Groundwater was not encountered. Boring was backfilled with bentonite grout.

ATTACHMENT B

Laboratory Report



Del Mar Analytical

17461 Delian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8591 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3624 FAX (702) 798-3621

LABORATORY REPORT

Prepared For: Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Aaron Baird

Project: ARCO 3081, Chino

Sampled: 11/14/05
Received: 11/14/05
Issued: 11/28/05 17:14

NELAP #01108CA California ELAP#1197 CSDLAC #10117

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable federal, state, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This Laboratory Report is confidential and is intended for the sole use of Del Mar Analytical and its client. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical. The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 3°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the Del Mar Analytical Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: No analyses were subcontracted to an outside laboratory.

| LABORATORY ID | CLIENT ID | MATRIX |
|---------------|-----------|--------|
| IOK1265-01 | CB-1-5 | Soil |
| IOK1265-02 | CB-1-10 | Soil |
| IOK1265-03 | CB-1-15 | Soil |
| IOK1265-04 | CB-1-20 | Soil |
| IOK1265-05 | CB-1-25 | Soil |
| IOK1265-06 | CB-1-30 | Soil |
| IOK1265-07 | CB-1-35 | Soil |
| IOK1265-08 | CB-1-40 | Soil |
| IOK1265-09 | CB-1-45 | Soil |
| IOK1265-10 | CB-1-50 | Soil |
| IOK1265-11 | CB-1-55 | Soil |

Del Mar Analytical, Irvine
Pat Abe
Project Manager



Del Mar Analytical

17461 Delian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Aaron Baird

Project ID: ARCO 3081, Chino
Report Number: IOK1265

Sampled: 11/14/05
Received: 11/14/05

| LABORATORY ID | CLIENT ID | MATRIX |
|---------------|-----------|--------|
| IOK1265-12 | CB-1-60 | Soil |
| IOK1265-13 | CB-1-65 | Soil |

Reviewed By:

Del Mar Analytical, Irvine
Pat Abe
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from Del Mar Analytical.*

IOK1265 <Page 2 of 21>



Del Mar Analytical

17461 Delian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino

Report Number: IOK1265

Sampled: 11/14/05

Received: 11/14/05

VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|--------|-------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IOK1265-01 (CB-1-5 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | |
| <i>Surrogate: 4-BFB (FID) (70-135%)</i> | | | | | | | | |
| Sample ID: IOK1265-02 (CB-1-10 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | |
| <i>Surrogate: 4-BFB (FID) (70-135%)</i> | | | | | | | | |
| Sample ID: IOK1265-03 (CB-1-15 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | |
| <i>Surrogate: 4-BFB (FID) (70-135%)</i> | | | | | | | | |
| Sample ID: IOK1265-04 (CB-1-20 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | |
| <i>Surrogate: 4-BFB (FID) (70-135%)</i> | | | | | | | | |
| Sample ID: IOK1265-05 (CB-1-25 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | |
| <i>Surrogate: 4-BFB (FID) (70-135%)</i> | | | | | | | | |
| Sample ID: IOK1265-06 (CB-1-30 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | |
| <i>Surrogate: 4-BFB (FID) (70-135%)</i> | | | | | | | | |
| Sample ID: IOK1265-07 (CB-1-35 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | |
| <i>Surrogate: 4-BFB (FID) (70-135%)</i> | | | | | | | | |
| Sample ID: IOK1265-08 (CB-1-40 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | |
| <i>Surrogate: 4-BFB (FID) (70-135%)</i> | | | | | | | | |

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 3 of 21>



Del Mar Analytical

17461 Delian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 7014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino
 Report Number: IOK1265

Sampled: 11/14/05
 Received: 11/14/05

VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---|-----------|---------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IOK1265-09 (CB-1-45 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | EPA 8015B | 5K16048 | 0.34 | ND | 0.856 | 11/16/2005 | 11/17/2005 | |
| <i>Surrogate: 4-BFB (FID) (70-135%)</i> | | | | | | | | |
| Sample ID: IOK1265-10 (CB-1-50 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | EPA 8015B | 5K16048 | 0.37 | ND | 0.935 | 11/16/2005 | 11/17/2005 | |
| <i>Surrogate: 4-BFB (FID) (70-135%)</i> | | | | | | | | |
| Sample ID: IOK1265-11 (CB-1-55 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | EPA 8015B | 5K18047 | 0.39 | ND | 0.967 | 11/18/2005 | 11/18/2005 | |
| <i>Surrogate: 4-BFB (FID) (70-135%)</i> | | | | | | | | |
| Sample ID: IOK1265-12 (CB-1-60 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | EPA 8015B | 5K17047 | 0.40 | ND | 1 | 11/17/2005 | 11/17/2005 | |
| <i>Surrogate: 4-BFB (FID) (70-135%)</i> | | | | | | | | |
| Sample ID: IOK1265-13 (CB-1-65 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | EPA 8015B | 5K17047 | 0.40 | ND | 1 | 11/17/2005 | 11/17/2005 | |
| <i>Surrogate: 4-BFB (FID) (70-135%)</i> | | | | | | | | |

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 4 of 21>



Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd., #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino
 Report Number: IOK1265

Sampled: 11/14/05
 Received: 11/14/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---------|--------|-------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
|---------|--------|-------|-----------------|---------------|-----------------|----------------|---------------|-----------------|

Sample ID: IOK1265-01 (CB-1-5 - Soil)

Reporting Units: mg/kg

| | | | | | | | |
|--------------------------------|-----------|---------|--------|----|------|------------|------------|
| Benzene | EPA 8260B | 5K16001 | 0.0026 | ND | 1.31 | 11/16/2005 | 11/16/2005 |
| Ethylbenzene | EPA 8260B | 5K16001 | 0.0026 | ND | 1.31 | 11/16/2005 | 11/16/2005 |
| Toluene | EPA 8260B | 5K16001 | 0.0026 | ND | 1.31 | 11/16/2005 | 11/16/2005 |
| o-Xylene | EPA 8260B | 5K16001 | 0.0026 | ND | 1.31 | 11/16/2005 | 11/16/2005 |
| m,p-Xylenes | EPA 8260B | 5K16001 | 0.0026 | ND | 1.31 | 11/16/2005 | 11/16/2005 |
| Xylenes, Total | EPA 8260B | 5K16001 | 0.0052 | ND | 1.31 | 11/16/2005 | 11/16/2005 |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5K16001 | 0.0066 | ND | 1.31 | 11/16/2005 | 11/16/2005 |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5K16001 | 0.0066 | ND | 1.31 | 11/16/2005 | 11/16/2005 |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5K16001 | 0.0066 | ND | 1.31 | 11/16/2005 | 11/16/2005 |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5K16001 | 0.0066 | ND | 1.31 | 11/16/2005 | 11/16/2005 |
| tert-Butanol (TBA) | EPA 8260B | 5K16001 | 0.066 | ND | 1.31 | 11/16/2005 | 11/16/2005 |
| Ethanol | EPA 8260B | 5K16001 | 0.39 | ND | 1.31 | 11/16/2005 | 11/16/2005 |

Surrogate: Dibromofluoromethane (80-125%)

Surrogate: Toluene-d8 (80-120%)

Surrogate: 4-Bromofluorobenzene (80-120%)

95 %

100 %

98 %

Sample ID: IOK1265-02 (CB-1-10 - Soil)

Reporting Units: mg/kg

| | | | | | | | |
|--------------------------------|-----------|---------|--------|----|---|------------|------------|
| Benzene | EPA 8260B | 5K16001 | 0.0020 | ND | 1 | 11/16/2005 | 11/16/2005 |
| Ethylbenzene | EPA 8260B | 5K16001 | 0.0020 | ND | 1 | 11/16/2005 | 11/16/2005 |
| Toluene | EPA 8260B | 5K16001 | 0.0020 | ND | 1 | 11/16/2005 | 11/16/2005 |
| o-Xylene | EPA 8260B | 5K16001 | 0.0020 | ND | 1 | 11/16/2005 | 11/16/2005 |
| m,p-Xylenes | EPA 8260B | 5K16001 | 0.0020 | ND | 1 | 11/16/2005 | 11/16/2005 |
| Xylenes, Total | EPA 8260B | 5K16001 | 0.0040 | ND | 1 | 11/16/2005 | 11/16/2005 |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5K16001 | 0.0050 | ND | 1 | 11/16/2005 | 11/16/2005 |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5K16001 | 0.0050 | ND | 1 | 11/16/2005 | 11/16/2005 |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5K16001 | 0.0050 | ND | 1 | 11/16/2005 | 11/16/2005 |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5K16001 | 0.0050 | ND | 1 | 11/16/2005 | 11/16/2005 |
| tert-Butanol (TBA) | EPA 8260B | 5K16001 | 0.050 | ND | 1 | 11/16/2005 | 11/16/2005 |
| Ethanol | EPA 8260B | 5K16001 | 0.30 | ND | 1 | 11/16/2005 | 11/16/2005 |

90 %

103 %

100 %

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
 except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 5 of 21>



Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino

Report Number: IOK1265

Sampled: 11/14/05
 Received: 11/14/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IOK1265-03 (CB-1-15 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Benzene | EPA 8260B | SK16001 | 0.0020 | ND | 0.998 | 11/16/2005 | 11/16/2005 | |
| Ethylbenzene | EPA 8260B | SK16001 | 0.0020 | ND | 0.998 | 11/16/2005 | 11/16/2005 | |
| Toluene | EPA 8260B | SK16001 | 0.0020 | ND | 0.998 | 11/16/2005 | 11/16/2005 | |
| o-Xylene | EPA 8260B | SK16001 | 0.0020 | ND | 0.998 | 11/16/2005 | 11/16/2005 | |
| m,p-Xylenes | EPA 8260B | SK16001 | 0.0020 | ND | 0.998 | 11/16/2005 | 11/16/2005 | |
| Xylenes, Total | EPA 8260B | SK16001 | 0.0040 | ND | 0.998 | 11/16/2005 | 11/16/2005 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | SK16001 | 0.0050 | ND | 0.998 | 11/16/2005 | 11/16/2005 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | SK16001 | 0.0050 | ND | 0.998 | 11/16/2005 | 11/16/2005 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | SK16001 | 0.0050 | ND | 0.998 | 11/16/2005 | 11/16/2005 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | SK16001 | 0.0050 | ND | 0.998 | 11/16/2005 | 11/16/2005 | |
| tert-Butanol (TBA) | EPA 8260B | SK16001 | 0.050 | ND | 0.998 | 11/16/2005 | 11/16/2005 | |
| Ethanol | EPA 8260B | SK16001 | 0.30 | ND | 0.998 | 11/16/2005 | 11/16/2005 | |
| <i>Surrogate: Dibromofluoromethane (80-125%)</i> | | | | | | | | |
| <i>Surrogate: Toluene-d8 (80-120%)</i> | | | | | | | | |
| <i>Surrogate: 4-Bromofluorobenzene (80-120%)</i> | | | | | | | | |
| 94 % | | | | | | | | |
| 100 % | | | | | | | | |
| 97 % | | | | | | | | |

Sample ID: IOK1265-04 (CB-1-20 - Soil)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Reporting Units: mg/kg | | | | | | | | |
| | | | | | | | | |
| Benzene | EPA 8260B | SK16001 | 0.0019 | ND | 0.947 | 11/16/2005 | 11/16/2005 | |
| Ethylbenzene | EPA 8260B | SK16001 | 0.0019 | ND | 0.947 | 11/16/2005 | 11/16/2005 | |
| Toluene | EPA 8260B | SK16001 | 0.0019 | ND | 0.947 | 11/16/2005 | 11/16/2005 | |
| o-Xylene | EPA 8260B | SK16001 | 0.0019 | ND | 0.947 | 11/16/2005 | 11/16/2005 | |
| m,p-Xylenes | EPA 8260B | SK16001 | 0.0019 | ND | 0.947 | 11/16/2005 | 11/16/2005 | |
| Xylenes, Total | EPA 8260B | SK16001 | 0.0038 | ND | 0.947 | 11/16/2005 | 11/16/2005 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | SK16001 | 0.0047 | ND | 0.947 | 11/16/2005 | 11/16/2005 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | SK16001 | 0.0047 | ND | 0.947 | 11/16/2005 | 11/16/2005 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | SK16001 | 0.0047 | ND | 0.947 | 11/16/2005 | 11/16/2005 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | SK16001 | 0.0047 | ND | 0.947 | 11/16/2005 | 11/16/2005 | |
| tert-Butanol (TBA) | EPA 8260B | SK16001 | 0.047 | ND | 0.947 | 11/16/2005 | 11/16/2005 | |
| Ethanol | EPA 8260B | SK16001 | 0.28 | ND | 0.947 | 11/16/2005 | 11/16/2005 | |
| <i>Surrogate: Dibromofluoromethane (80-125%)</i> | | | | | | | | |
| <i>Surrogate: Toluene-d8 (80-120%)</i> | | | | | | | | |
| <i>Surrogate: 4-Bromofluorobenzene (80-120%)</i> | | | | | | | | |
| 91 % | | | | | | | | |
| 101 % | | | | | | | | |
| 100 % | | | | | | | | |

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 6 of 21>



Del Mar Analytical

17461 Dorian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-1667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-6596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89128 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino

Report Number: IOK1265

Sampled: 11/14/05
 Received: 11/14/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---------|--------|-------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
|---------|--------|-------|-----------------|---------------|-----------------|----------------|---------------|-----------------|

Sample ID: IOK1265-05 (CB-1-25 - Soil)

Reporting Units: mg/kg

| | | | | | | | |
|--------------------------------|-----------|---------|--------|----|------|------------|------------|
| Benzene | EPA 8260B | 5K16003 | 0.0026 | ND | 1.29 | 11/16/2005 | 11/16/2005 |
| Ethylbenzene | EPA 8260B | 5K16003 | 0.0026 | ND | 1.29 | 11/16/2005 | 11/16/2005 |
| Toluene | EPA 8260B | 5K16003 | 0.0026 | ND | 1.29 | 11/16/2005 | 11/16/2005 |
| o-Xylene | EPA 8260B | 5K16003 | 0.0026 | ND | 1.29 | 11/16/2005 | 11/16/2005 |
| m,p-Xylenes | EPA 8260B | 5K16003 | 0.0026 | ND | 1.29 | 11/16/2005 | 11/16/2005 |
| Xylenes, Total | EPA 8260B | 5K16003 | 0.0051 | ND | 1.29 | 11/16/2005 | 11/16/2005 |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5K16003 | 0.0064 | ND | 1.29 | 11/16/2005 | 11/16/2005 |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5K16003 | 0.0064 | ND | 1.29 | 11/16/2005 | 11/16/2005 |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5K16003 | 0.0064 | ND | 1.29 | 11/16/2005 | 11/16/2005 |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5K16003 | 0.0064 | ND | 1.29 | 11/16/2005 | 11/16/2005 |
| tert-Butanol (TBA) | EPA 8260B | 5K16003 | 0.064 | ND | 1.29 | 11/16/2005 | 11/16/2005 |
| Ethanol | EPA 8260B | 5K16003 | 0.39 | ND | 1.29 | 11/16/2005 | 11/16/2005 |

Surrogate: Dibromofluoromethane (80-125%)

106 %

Surrogate: Toluene-d8 (80-120%)

98 %

Surrogate: 4-Bromofluorobenzene (80-120%)

98 %

Sample ID: IOK1265-06 (CB-1-30 - Soil)

Reporting Units: mg/kg

| | | | | | | | |
|--------------------------------|-----------|---------|--------|----|-------|------------|------------|
| Benzene | EPA 8260B | 5K16003 | 0.0017 | ND | 0.832 | 11/16/2005 | 11/16/2005 |
| Ethylbenzene | EPA 8260B | 5K16003 | 0.0017 | ND | 0.832 | 11/16/2005 | 11/16/2005 |
| Toluene | EPA 8260B | 5K16003 | 0.0017 | ND | 0.832 | 11/16/2005 | 11/16/2005 |
| o-Xylene | EPA 8260B | 5K16003 | 0.0017 | ND | 0.832 | 11/16/2005 | 11/16/2005 |
| m,p-Xylenes | EPA 8260B | 5K16003 | 0.0017 | ND | 0.832 | 11/16/2005 | 11/16/2005 |
| Xylenes, Total | EPA 8260B | 5K16003 | 0.0033 | ND | 0.832 | 11/16/2005 | 11/16/2005 |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5K16003 | 0.0042 | ND | 0.832 | 11/16/2005 | 11/16/2005 |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5K16003 | 0.0042 | ND | 0.832 | 11/16/2005 | 11/16/2005 |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5K16003 | 0.0042 | ND | 0.832 | 11/16/2005 | 11/16/2005 |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5K16003 | 0.0042 | ND | 0.832 | 11/16/2005 | 11/16/2005 |
| tert-Butanol (TBA) | EPA 8260B | 5K16003 | 0.042 | ND | 0.832 | 11/16/2005 | 11/16/2005 |
| Ethanol | EPA 8260B | 5K16003 | 0.25 | ND | 0.832 | 11/16/2005 | 11/16/2005 |

Surrogate: Dibromofluoromethane (80-125%)

106 %

Surrogate: Toluene-d8 (80-120%)

97 %

Surrogate: 4-Bromofluorobenzene (80-120%)

103 %

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 7 of 21>



Del Mar Analytical

17461 Delian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino

Report Number: IOK1265

Sampled: 11/14/05

Received: 11/14/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---------|--------|-------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
|---------|--------|-------|-----------------|---------------|-----------------|----------------|---------------|-----------------|

Sample ID: IOK1265-07 (CB-1-35 - Soil)

Reporting Units: mg/kg

| | | | | | | | |
|--------------------------------|-----------|---------|--------|----|-------|------------|------------|
| Benzene | EPA 8260B | 5K16003 | 0.0018 | ND | 0.876 | 11/16/2005 | 11/16/2005 |
| Ethylbenzene | EPA 8260B | 5K16003 | 0.0018 | ND | 0.876 | 11/16/2005 | 11/16/2005 |
| Toluene | EPA 8260B | 5K16003 | 0.0018 | ND | 0.876 | 11/16/2005 | 11/16/2005 |
| o-Xylene | EPA 8260B | 5K16003 | 0.0018 | ND | 0.876 | 11/16/2005 | 11/16/2005 |
| m,p-Xylenes | EPA 8260B | 5K16003 | 0.0018 | ND | 0.876 | 11/16/2005 | 11/16/2005 |
| Xylenes, Total | EPA 8260B | 5K16003 | 0.0035 | ND | 0.876 | 11/16/2005 | 11/16/2005 |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5K16003 | 0.0044 | ND | 0.876 | 11/16/2005 | 11/16/2005 |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5K16003 | 0.0044 | ND | 0.876 | 11/16/2005 | 11/16/2005 |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5K16003 | 0.0044 | ND | 0.876 | 11/16/2005 | 11/16/2005 |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5K16003 | 0.0044 | ND | 0.876 | 11/16/2005 | 11/16/2005 |
| tert-Butanol (TBA) | EPA 8260B | 5K16003 | 0.044 | ND | 0.876 | 11/16/2005 | 11/16/2005 |
| Ethanol | EPA 8260B | 5K16003 | 0.26 | ND | 0.876 | 11/16/2005 | 11/16/2005 |

Surrogate: Dibromofluoromethane (80-125%)

Surrogate: Toluene-d8 (80-120%)

Surrogate: 4-Bromofluorobenzene (80-120%)

100 %

97 %

101 %

Sample ID: IOK1265-08 (CB-1-40 - Soil)

Reporting Units: mg/kg

| | | | | | | | |
|--------------------------------|-----------|---------|--------|----|-------|------------|------------|
| Benzene | EPA 8260B | 5K16003 | 0.0018 | ND | 0.877 | 11/16/2005 | 11/16/2005 |
| Ethylbenzene | EPA 8260B | 5K16003 | 0.0018 | ND | 0.877 | 11/16/2005 | 11/16/2005 |
| Toluene | EPA 8260B | 5K16003 | 0.0018 | ND | 0.877 | 11/16/2005 | 11/16/2005 |
| o-Xylene | EPA 8260B | 5K16003 | 0.0018 | ND | 0.877 | 11/16/2005 | 11/16/2005 |
| m,p-Xylenes | EPA 8260B | 5K16003 | 0.0018 | ND | 0.877 | 11/16/2005 | 11/16/2005 |
| Xylenes, Total | EPA 8260B | 5K16003 | 0.0035 | ND | 0.877 | 11/16/2005 | 11/16/2005 |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5K16003 | 0.0044 | ND | 0.877 | 11/16/2005 | 11/16/2005 |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5K16003 | 0.0044 | ND | 0.877 | 11/16/2005 | 11/16/2005 |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5K16003 | 0.0044 | ND | 0.877 | 11/16/2005 | 11/16/2005 |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5K16003 | 0.0044 | ND | 0.877 | 11/16/2005 | 11/16/2005 |
| tert-Butanol (TBA) | EPA 8260B | 5K16003 | 0.044 | ND | 0.877 | 11/16/2005 | 11/16/2005 |
| Ethanol | EPA 8260B | 5K16003 | 0.26 | ND | 0.877 | 11/16/2005 | 11/16/2005 |

Surrogate: Dibromofluoromethane (80-125%)

Surrogate: Toluene-d8 (80-120%)

Surrogate: 4-Bromofluorobenzene (80-120%)

106 %

97 %

101 %

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager



Del Mar Analytical

17461 Delian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite 8-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino
 Report Number: IOK1265

Sampled: 11/14/05
 Received: 11/14/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IOK1265-09 (CB-1-45 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Benzene | EPA 8260B | 5K16003 | 0.0018 | ND | 0.904 | 11/16/2005 | 11/16/2005 | |
| Ethylbenzene | EPA 8260B | 5K16003 | 0.0018 | ND | 0.904 | 11/16/2005 | 11/16/2005 | |
| Toluene | EPA 8260B | 5K16003 | 0.0018 | ND | 0.904 | 11/16/2005 | 11/16/2005 | |
| o-Xylene | EPA 8260B | 5K16003 | 0.0018 | ND | 0.904 | 11/16/2005 | 11/16/2005 | |
| m,p-Xylenes | EPA 8260B | 5K16003 | 0.0018 | ND | 0.904 | 11/16/2005 | 11/16/2005 | |
| Xylenes, Total | EPA 8260B | 5K16003 | 0.0036 | ND | 0.904 | 11/16/2005 | 11/16/2005 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5K16003 | 0.0045 | ND | 0.904 | 11/16/2005 | 11/16/2005 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5K16003 | 0.0045 | ND | 0.904 | 11/16/2005 | 11/16/2005 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5K16003 | 0.0045 | ND | 0.904 | 11/16/2005 | 11/16/2005 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5K16003 | 0.0045 | ND | 0.904 | 11/16/2005 | 11/16/2005 | |
| tert-Butanol (TBA) | EPA 8260B | 5K16003 | 0.045 | ND | 0.904 | 11/16/2005 | 11/16/2005 | |
| Ethanol | EPA 8260B | 5K16003 | 0.27 | ND | 0.904 | 11/16/2005 | 11/16/2005 | |
| <i>Surrogate: Dibromoformomethane (80-125%)</i> | | | | | | | | |
| <i>Surrogate: Toluene-d8 (80-120%)</i> | | | | | | | | |
| <i>Surrogate: 4-Bromofluorobenzene (80-120%)</i> | | | | | | | | |
| <i>111 %</i> | | | | | | | | |
| <i>99 %</i> | | | | | | | | |
| <i>101 %</i> | | | | | | | | |
| Sample ID: IOK1265-10 (CB-1-50 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Benzene | EPA 8260B | 5K16018 | 0.0019 | ND | 0.952 | 11/16/2005 | 11/17/2005 | |
| Ethylbenzene | EPA 8260B | 5K16018 | 0.0019 | ND | 0.952 | 11/16/2005 | 11/17/2005 | |
| Toluene | EPA 8260B | 5K16018 | 0.0019 | ND | 0.952 | 11/16/2005 | 11/17/2005 | |
| o-Xylene | EPA 8260B | 5K16018 | 0.0019 | ND | 0.952 | 11/16/2005 | 11/17/2005 | |
| m,p-Xylenes | EPA 8260B | 5K16018 | 0.0019 | 0.0019 | 0.952 | 11/16/2005 | 11/17/2005 | |
| Xylenes, Total | EPA 8260B | 5K16018 | 0.0038 | ND | 0.952 | 11/16/2005 | 11/17/2005 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5K16018 | 0.0048 | ND | 0.952 | 11/16/2005 | 11/17/2005 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5K16018 | 0.0048 | ND | 0.952 | 11/16/2005 | 11/17/2005 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5K16018 | 0.0048 | ND | 0.952 | 11/16/2005 | 11/17/2005 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5K16018 | 0.0048 | ND | 0.952 | 11/16/2005 | 11/17/2005 | |
| tert-Butanol (TBA) | EPA 8260B | 5K16018 | 0.048 | ND | 0.952 | 11/16/2005 | 11/17/2005 | |
| Ethanol | EPA 8260B | 5K16018 | 0.29 | ND | 0.952 | 11/16/2005 | 11/17/2005 | |
| <i>107 %</i> | | | | | | | | |
| <i>101 %</i> | | | | | | | | |
| <i>99 %</i> | | | | | | | | |

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
 except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 9 of 21>



Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino
 Report Number: IOK1265

Sampled: 11/14/05
 Received: 11/14/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|---------|--------|-------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
|---------|--------|-------|-----------------|---------------|-----------------|----------------|---------------|-----------------|

Sample ID: IOK1265-11 (CB-1-55 - Soil)

Reporting Units: mg/kg

| | | | | | | | |
|--------------------------------|-----------|---------|--------|----|-------|------------|------------|
| Benzene | EPA 8260B | 5K16018 | 0.0019 | ND | 0.928 | 11/16/2005 | 11/17/2005 |
| Ethylbenzene | EPA 8260B | 5K16018 | 0.0019 | ND | 0.928 | 11/16/2005 | 11/17/2005 |
| Toluene | EPA 8260B | 5K16018 | 0.0019 | ND | 0.928 | 11/16/2005 | 11/17/2005 |
| o-Xylene | EPA 8260B | 5K16018 | 0.0019 | ND | 0.928 | 11/16/2005 | 11/17/2005 |
| m,p-Xylenes | EPA 8260B | 5K16018 | 0.0019 | ND | 0.928 | 11/16/2005 | 11/17/2005 |
| Xylenes, Total | EPA 8260B | 5K16018 | 0.0037 | ND | 0.928 | 11/16/2005 | 11/17/2005 |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5K16018 | 0.0046 | ND | 0.928 | 11/16/2005 | 11/17/2005 |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5K16018 | 0.0046 | ND | 0.928 | 11/16/2005 | 11/17/2005 |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5K16018 | 0.0046 | ND | 0.928 | 11/16/2005 | 11/17/2005 |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5K16018 | 0.0046 | ND | 0.928 | 11/16/2005 | 11/17/2005 |
| tert-Butanol (TBA) | EPA 8260B | 5K16018 | 0.046 | ND | 0.928 | 11/16/2005 | 11/17/2005 |
| Ethanol | EPA 8260B | 5K16018 | 0.28 | ND | 0.928 | 11/16/2005 | 11/17/2005 |

Surrogate: Dibromofluoromethane (80-125%)

105 %

Surrogate: Toluene-d8 (80-120%)

103 %

Surrogate: 4-Bromofluorobenzene (80-120%)

96 %

Sample ID: IOK1265-12 (CB-1-60 - Soil)

Reporting Units: mg/kg

| | | | | | | | |
|--------------------------------|-----------|---------|--------|----|-------|------------|------------|
| Benzene | EPA 8260B | 5K16018 | 0.0016 | ND | 0.789 | 11/16/2005 | 11/17/2005 |
| Ethylbenzene | EPA 8260B | 5K16018 | 0.0016 | ND | 0.789 | 11/16/2005 | 11/17/2005 |
| Toluene | EPA 8260B | 5K16018 | 0.0016 | ND | 0.789 | 11/16/2005 | 11/17/2005 |
| o-Xylene | EPA 8260B | 5K16018 | 0.0016 | ND | 0.789 | 11/16/2005 | 11/17/2005 |
| m,p-Xylenes | EPA 8260B | 5K16018 | 0.0016 | ND | 0.789 | 11/16/2005 | 11/17/2005 |
| Xylenes, Total | EPA 8260B | 5K16018 | 0.0032 | ND | 0.789 | 11/16/2005 | 11/17/2005 |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5K16018 | 0.0039 | ND | 0.789 | 11/16/2005 | 11/17/2005 |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5K16018 | 0.0039 | ND | 0.789 | 11/16/2005 | 11/17/2005 |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5K16018 | 0.0039 | ND | 0.789 | 11/16/2005 | 11/17/2005 |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5K16018 | 0.0039 | ND | 0.789 | 11/16/2005 | 11/17/2005 |
| tert-Butanol (TBA) | EPA 8260B | 5K16018 | 0.039 | ND | 0.789 | 11/16/2005 | 11/17/2005 |
| Ethanol | EPA 8260B | 5K16018 | 0.24 | ND | 0.789 | 11/16/2005 | 11/17/2005 |

Surrogate: Dibromofluoromethane (80-125%)

107 %

Surrogate: Toluene-d8 (80-120%)

104 %

Surrogate: 4-Bromofluorobenzene (80-120%)

96 %

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
 except in full, without written permission from Del Mar Analytical.*

IOK1265 <Page 10 of 21>



Del Mar Analytical

17461 Delian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino
 Report Number: IOK1265

Sampled: 11/14/05
 Received: 11/14/05

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

| Analyte | Method | Batch | Reporting Limit | Sample Result | Dilution Factor | Date Extracted | Date Analyzed | Data Qualifiers |
|--|-----------|---------|-----------------|---------------|-----------------|----------------|---------------|-----------------|
| Sample ID: IOK1265-13 (CB-1-65 - Soil) | | | | | | | | |
| Reporting Units: mg/kg | | | | | | | | |
| Benzene | EPA 8260B | 5K16018 | 0.0022 | ND | 1.09 | 11/16/2005 | 11/17/2005 | |
| Ethylbenzene | EPA 8260B | 5K16018 | 0.0022 | ND | 1.09 | 11/16/2005 | 11/17/2005 | |
| Toluene | EPA 8260B | 5K16018 | 0.0022 | ND | 1.09 | 11/16/2005 | 11/17/2005 | |
| o-Xylene | EPA 8260B | 5K16018 | 0.0022 | ND | 1.09 | 11/16/2005 | 11/17/2005 | |
| m,p-Xylenes | EPA 8260B | 5K16018 | 0.0022 | ND | 1.09 | 11/16/2005 | 11/17/2005 | |
| Xylenes, Total | EPA 8260B | 5K16018 | 0.0043 | ND | 1.09 | 11/16/2005 | 11/17/2005 | |
| Di-isopropyl Ether (DIPE) | EPA 8260B | 5K16018 | 0.0054 | ND | 1.09 | 11/16/2005 | 11/17/2005 | |
| Ethyl tert-Butyl Ether (ETBE) | EPA 8260B | 5K16018 | 0.0054 | ND | 1.09 | 11/16/2005 | 11/17/2005 | |
| tert-Amyl Methyl Ether (TAME) | EPA 8260B | 5K16018 | 0.0054 | ND | 1.09 | 11/16/2005 | 11/17/2005 | |
| Methyl-tert-butyl Ether (MTBE) | EPA 8260B | 5K16018 | 0.0054 | ND | 1.09 | 11/16/2005 | 11/17/2005 | |
| tert-Butanol (TBA) | EPA 8260B | 5K16018 | 0.054 | ND | 1.09 | 11/16/2005 | 11/17/2005 | |
| Ethanol | EPA 8260B | 5K16018 | 0.33 | ND | 1.09 | 11/16/2005 | 11/17/2005 | |
| <i>Surrogate: Dibromofluoromethane (80-125%)</i> | | | | | | | | |
| <i>Surrogate: Toluene-d8 (80-120%)</i> | | | | | | | | |
| <i>Surrogate: 4-Bromofluorobenzene (80-120%)</i> | | | | | | | | |
| | | | | 112 % | | | | |
| | | | | 105 % | | | | |
| | | | | 99 % | | | | |

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 11 of 21>



Del Mar Analytical

17461 Delian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite 8-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino

Report Number: IOK1265

Sampled: 11/14/05

Received: 11/14/05

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|

Batch: 5K16048 Extracted: 11/16/05

Blank Analyzed: 11/16/2005 (5K16048-BLK1)

| | | | | | | | | | |
|-------------------------------------|--------|------|-------|--------|--|----|--------|--|--|
| Volatile Fuel Hydrocarbons (C6-C12) | ND | 0.40 | mg/kg | | | | | | |
| <i>Surrogate: 4-BFB (FID)</i> | 0.0172 | | mg/kg | 0.0200 | | 86 | 70-135 | | |

LCS Analyzed: 11/16/2005 (5K16048-BS1)

| | | | | | | | | | |
|-------------------------------------|--------|------|-------|--------|--|-----|--------|--|--|
| Volatile Fuel Hydrocarbons (C6-C12) | 1.63 | 0.40 | mg/kg | 1.60 | | 102 | 65-135 | | |
| <i>Surrogate: 4-BFB (FID)</i> | 0.0691 | | mg/kg | 0.0600 | | 115 | 70-135 | | |

LCS Dup Analyzed: 11/16/2005 (5K16048-BSD1)

| | | | | | | | | | |
|-------------------------------------|--------|------|-------|--------|--|-----|--------|---|----|
| Volatile Fuel Hydrocarbons (C6-C12) | 1.63 | 0.40 | mg/kg | 1.60 | | 102 | 65-135 | 0 | 20 |
| <i>Surrogate: 4-BFB (FID)</i> | 0.0644 | | mg/kg | 0.0600 | | 107 | 70-135 | | |

Matrix Spike Analyzed: 11/16/2005 (5K16048-MS1)

| | | | | | | | | | |
|-------------------------------------|--------|------|-------|--------|-------|-----|--------|--|--|
| Volatile Fuel Hydrocarbons (C6-C12) | 0.601 | 0.40 | mg/kg | 0.441 | 0.076 | 119 | 55-145 | | |
| <i>Surrogate: 4-BFB (FID)</i> | 0.0204 | | mg/kg | 0.0200 | | 102 | 70-135 | | |

Source: IOK1288-05

Matrix Spike Dup Analyzed: 11/16/2005 (5K16048-MSD1)

| | | | | | | | | | |
|-------------------------------------|--------|------|-------|--------|-------|-----|--------|----|----|
| Volatile Fuel Hydrocarbons (C6-C12) | 0.721 | 0.48 | mg/kg | 0.533 | 0.076 | 121 | 55-145 | 18 | 35 |
| <i>Surrogate: 4-BFB (FID)</i> | 0.0267 | | mg/kg | 0.0242 | | 110 | 70-135 | | |

Source: IOK1288-05

Batch: 5K17047 Extracted: 11/17/05

Blank Analyzed: 11/17/2005 (5K17047-BLK1)

| | | | | | | | | | |
|-------------------------------------|--------|------|-------|--------|--|----|--------|--|--|
| Volatile Fuel Hydrocarbons (C6-C12) | ND | 0.40 | mg/kg | | | | | | |
| <i>Surrogate: 4-BFB (FID)</i> | 0.0171 | | mg/kg | 0.0200 | | 86 | 70-135 | | |

LCS Analyzed: 11/17/2005 (5K17047-BS1)

| | | | | | | | | | |
|-------------------------------------|--------|------|-------|--------|--|-----|--------|--|--|
| Volatile Fuel Hydrocarbons (C6-C12) | 1.54 | 0.40 | mg/kg | 1.60 | | 96 | 65-135 | | |
| <i>Surrogate: 4-BFB (FID)</i> | 0.0632 | | mg/kg | 0.0600 | | 105 | 70-135 | | |

Del Mar Analytical, Irvine

Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 12 of 21>



Del Mar Analytical

17461 Delian Ave., Suite 100, Irvine, CA 92614 (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd., #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino

Report Number: IOK1265

Sampled: 11/14/05

Received: 11/14/05

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS (EPA 5035B/CADHS Mod. 8015)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| Batch: SK17047 Extracted: 11/17/05 | | | | | | | | | | |
| Matrix Spike Analyzed: 11/17/2005 (SK17047-MS1) | | | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | | | |
| Surrogate: 4-BFB (FID) | | | | | | | | | | |
| Source: IOK1265-05 | | | | | | | | | | |
| | 0.532 | 0.40 | mg/kg | 0.440 | ND | 121 | 55-145 | | | |
| | 0.0178 | | mg/kg | 0.0200 | | 89 | 70-135 | | | |
| Matrix Spike Dup Analyzed: 11/17/2005 (SK17047-MSD1) | | | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | | | |
| Surrogate: 4-BFB (FID) | | | | | | | | | | |
| Source: IOK1265-05 | | | | | | | | | | |
| | 0.468 | 0.40 | mg/kg | 0.440 | ND | 106 | 55-145 | 13 | 35 | |
| | 0.0169 | | mg/kg | 0.0200 | | 84 | 70-135 | | | |
| Batch: SK18047 Extracted: 11/18/05 | | | | | | | | | | |
| Blank Analyzed: 11/18/2005 (SK18047-BLK1) | | | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | | | |
| Surrogate: 4-BFB (FID) | | | | | | | | | | |
| Source: IOK1265-05 | | | | | | | | | | |
| | ND | 0.40 | mg/kg | 0.0200 | | 109 | 70-135 | | | |
| | 0.0218 | | mg/kg | | | | | | | |
| LCS Analyzed: 11/18/2005 (SK18047-BS1) | | | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | | | |
| Surrogate: 4-BFB (FID) | | | | | | | | | | |
| Source: IOK1265-05 | | | | | | | | | | |
| | 1.71 | 0.40 | mg/kg | 1.60 | | 107 | 65-135 | | | |
| | 0.0771 | | mg/kg | 0.0600 | | 128 | 70-135 | | | |
| LCS Dup Analyzed: 11/18/2005 (SK18047-BSD1) | | | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | | | |
| Surrogate: 4-BFB (FID) | | | | | | | | | | |
| Source: IOK1382-05 | | | | | | | | | | |
| | 1.41 | 0.40 | mg/kg | 1.60 | | 88 | 65-135 | 19 | 20 | |
| | 0.0682 | | mg/kg | 0.0600 | | 114 | 70-135 | | | |
| Matrix Spike Analyzed: 11/18/2005 (SK18047-MS1) | | | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | | | |
| Surrogate: 4-BFB (FID) | | | | | | | | | | |
| Source: IOK1382-05 | | | | | | | | | | |
| | 0.371 | 0.34 | mg/kg | 0.373 | ND | 99 | 55-145 | | | |
| | 0.0170 | | mg/kg | 0.0169 | | 101 | 70-135 | | | |
| Matrix Spike Dup Analyzed: 11/18/2005 (SK18047-MSD1) | | | | | | | | | | |
| Volatile Fuel Hydrocarbons (C6-C12) | | | | | | | | | | |
| Surrogate: 4-BFB (FID) | | | | | | | | | | |
| Source: IOK1382-05 | | | | | | | | | | |
| | 0.424 | 0.41 | mg/kg | 0.448 | ND | 95 | 55-145 | 13 | 35 | |
| | 0.0198 | | mg/kg | 0.0204 | | 97 | 70-135 | | | |

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 13 of 21>



Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino
 Report Number: IOK1265

Sampled: 11/14/05
 Received: 11/14/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|--|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 5K16001 Extracted: 11/16/05</u> | | | | | | | | | | |
| Blank Analyzed: 11/16/2005 (5K16001-BLK1) | | | | | | | | | | |
| | | | | | | | | | | |
| Benzene | ND | 0.0020 | mg/kg | | | | | | | |
| Ethylbenzene | ND | 0.0020 | mg/kg | | | | | | | |
| Toluene | ND | 0.0020 | mg/kg | | | | | | | |
| o-Xylene | ND | 0.0020 | mg/kg | | | | | | | |
| m,p-Xylenes | ND | 0.0020 | mg/kg | | | | | | | |
| Xylenes, Total | ND | 0.0040 | mg/kg | | | | | | | |
| Di-isopropyl Ether (DIPE) | ND | 0.0050 | mg/kg | | | | | | | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.0050 | mg/kg | | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0050 | mg/kg | | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.0050 | mg/kg | | | | | | | |
| tert-Butanol (TBA) | ND | 0.050 | mg/kg | | | | | | | |
| Ethanol | ND | 0.30 | mg/kg | | | | | | | |
| <i>Surrogate: Dibromoformmethane</i> | 0.0464 | | mg/kg | 0.0500 | | 93 | 80-125 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0507 | | mg/kg | 0.0500 | | 101 | 80-120 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0492 | | mg/kg | 0.0500 | | 98 | 80-120 | | | |
| LCS Analyzed: 11/16/2005 (5K16001-BS1) | | | | | | | | | | |
| | | | | | | | | | | |
| Benzene | 0.0533 | 0.0020 | mg/kg | 0.0500 | | 107 | 65-120 | | | DU |
| Ethylbenzene | 0.0523 | 0.0020 | mg/kg | 0.0500 | | 105 | 70-125 | | | |
| Toluene | 0.0542 | 0.0020 | mg/kg | 0.0500 | | 108 | 70-125 | | | |
| o-Xylene | 0.0529 | 0.0020 | mg/kg | 0.0500 | | 106 | 70-125 | | | |
| m,p-Xylenes | 0.110 | 0.0020 | mg/kg | 0.100 | | 110 | 70-125 | | | |
| Xylenes, Total | 0.163 | 0.0040 | mg/kg | 0.150 | | 109 | 70-125 | | | |
| Di-isopropyl Ether (DIPE) | 0.0487 | 0.0050 | mg/kg | 0.0500 | | 97 | 60-135 | | | |
| Ethyl tert-Butyl Ether (ETBE) | 0.0478 | 0.0050 | mg/kg | 0.0500 | | 96 | 60-135 | | | |
| tert-Amyl Methyl Ether (TAME) | 0.0493 | 0.0050 | mg/kg | 0.0500 | | 99 | 60-140 | | | |
| Methyl-tert-butyl Ether (MTBE) | 0.0494 | 0.0050 | mg/kg | 0.0500 | | 99 | 55-140 | | | |
| tert-Butanol (TBA) | 0.251 | 0.050 | mg/kg | 0.250 | | 100 | 65-135 | | | |
| Ethanol | 0.405 | 0.30 | mg/kg | 0.500 | | 81 | 35-160 | | | |
| <i>Surrogate: Dibromoformmethane</i> | 0.0474 | | mg/kg | 0.0500 | | 95 | 80-125 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0518 | | mg/kg | 0.0500 | | 104 | 80-120 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0504 | | mg/kg | 0.0500 | | 101 | 80-120 | | | |

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 14 of 21>



Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino
 Report Number: IOK1265

Sampled: 11/14/05
 Received: 11/14/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|

Batch: SK16001 Extracted: 11/16/05

LCS Dup Analyzed: 11/16/2005 (SK16001-BSD1)

| | | | | | | | | | |
|--|--------|--------|-------|--------|--|-----|--------|----|----|
| Benzene | 0.0485 | 0.0020 | mg/kg | 0.0500 | | 97 | 65-120 | 9 | 20 |
| Ethylbenzene | 0.0489 | 0.0020 | mg/kg | 0.0500 | | 98 | 70-125 | 7 | 20 |
| Toluene | 0.0506 | 0.0020 | mg/kg | 0.0500 | | 101 | 70-125 | 7 | 20 |
| o-Xylene | 0.0480 | 0.0020 | mg/kg | 0.0500 | | 96 | 70-125 | 10 | 20 |
| m,p-Xylenes | 0.0993 | 0.0020 | mg/kg | 0.100 | | 99 | 70-125 | 10 | 20 |
| Xylenes, Total | 0.147 | 0.0040 | mg/kg | 0.150 | | 98 | 70-125 | 10 | 20 |
| Di-isopropyl Ether (DIPE) | 0.0461 | 0.0050 | mg/kg | 0.0500 | | 92 | 60-135 | 5 | 20 |
| Ethyl tert-Butyl Ether (ETBE) | 0.0464 | 0.0050 | mg/kg | 0.0500 | | 93 | 60-135 | 3 | 20 |
| tert-Amyl Methyl Ether (TAME) | 0.0462 | 0.0050 | mg/kg | 0.0500 | | 92 | 60-140 | 6 | 20 |
| Methyl-tert-butyl Ether (MTBE) | 0.0464 | 0.0050 | mg/kg | 0.0500 | | 93 | 55-140 | 6 | 25 |
| tert-Butanol (TBA) | 0.248 | 0.050 | mg/kg | 0.250 | | 99 | 65-135 | 1 | 20 |
| Ethanol | 0.455 | 0.30 | mg/kg | 0.500 | | 91 | 35-160 | 12 | 30 |
| <i>Surrogate: Dibromofluoromethane</i> | 0.0471 | | mg/kg | 0.0500 | | 94 | 80-125 | | |
| <i>Surrogate: Toluene-d8</i> | 0.0503 | | mg/kg | 0.0500 | | 101 | 80-120 | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0497 | | mg/kg | 0.0500 | | 99 | 80-120 | | |

Batch: SK16003 Extracted: 11/16/05

Blank Analyzed: 11/16/2005 (SK16003-BLK1)

| | | | | | | | | | |
|--|--------|--------|-------|--------|--|-----|--------|--|--|
| Benzene | ND | 0.0020 | mg/kg | | | | | | |
| Ethylbenzene | ND | 0.0020 | mg/kg | | | | | | |
| Toluene | ND | 0.0020 | mg/kg | | | | | | |
| o-Xylene | ND | 0.0020 | mg/kg | | | | | | |
| m,p-Xylenes | ND | 0.0020 | mg/kg | | | | | | |
| Xylenes, Total | ND | 0.0040 | mg/kg | | | | | | |
| Di-isopropyl Ether (DIPE) | ND | 0.0050 | mg/kg | | | | | | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.0050 | mg/kg | | | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0050 | mg/kg | | | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.0050 | mg/kg | | | | | | |
| tert-Butanol (TBA) | ND | 0.050 | mg/kg | | | | | | |
| Ethanol | ND | 0.30 | mg/kg | | | | | | |
| <i>Surrogate: Dibromofluoromethane</i> | 0.0555 | | mg/kg | 0.0500 | | 111 | 80-125 | | |
| <i>Surrogate: Toluene-d8</i> | 0.0500 | | mg/kg | 0.0500 | | 100 | 80-120 | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0507 | | mg/kg | 0.0500 | | 101 | 80-120 | | |

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 15 of 21>



Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino
 Report Number: IOK1265

Sampled: 11/14/05
 Received: 11/14/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|

Batch: 5K16003 Extracted: 11/16/05

LCS Analyzed: 11/16/2005 (5K16003-BS1)

| | | | | | | |
|---------------------------------|--------|--------|-------|--------|-----|--------|
| Benzene | 0.0396 | 0.0020 | mg/kg | 0.0500 | 79 | 65-120 |
| Ethylbenzene | 0.0449 | 0.0020 | mg/kg | 0.0500 | 90 | 70-125 |
| Toluene | 0.0420 | 0.0020 | mg/kg | 0.0500 | 84 | 70-125 |
| o-Xylene | 0.0435 | 0.0020 | mg/kg | 0.0500 | 87 | 70-125 |
| m,p-Xylenes | 0.0881 | 0.0020 | mg/kg | 0.100 | 88 | 70-125 |
| Xylenes, Total | 0.132 | 0.0040 | mg/kg | 0.150 | 88 | 70-125 |
| Di-isopropyl Ether (DIPE) | 0.0515 | 0.0050 | mg/kg | 0.0500 | 103 | 60-135 |
| Ethyl tert-Butyl Ether (ETBE) | 0.0497 | 0.0050 | mg/kg | 0.0500 | 99 | 60-135 |
| tert-Amyl Methyl Ether (TAME) | 0.0475 | 0.0050 | mg/kg | 0.0500 | 95 | 60-140 |
| Methyl-tert-butyl Ether (MTBE) | 0.0452 | 0.0050 | mg/kg | 0.0500 | 90 | 55-140 |
| tert-Butanol (TBA) | 0.288 | 0.050 | mg/kg | 0.250 | 115 | 65-135 |
| Ethanol | 0.633 | 0.30 | mg/kg | 0.500 | 127 | 35-160 |
| Surrogate: Dibromoformmethane | 0.0529 | | mg/kg | 0.0500 | 106 | 80-125 |
| Surrogate: Toluene-d8 | 0.0489 | | mg/kg | 0.0500 | 98 | 80-120 |
| Surrogate: 4-Bromofluorobenzene | 0.0548 | | mg/kg | 0.0500 | 110 | 80-120 |

Matrix Spike Analyzed: 11/16/2005 (5K16003-MS1)

Source: IOK1265-05

| | | | | | | | |
|---------------------------------|--------|--------|-------|--------|----|-----|--------|
| Benzene | 0.0417 | 0.0021 | mg/kg | 0.0521 | ND | 80 | 65-130 |
| Ethylbenzene | 0.0466 | 0.0021 | mg/kg | 0.0521 | ND | 89 | 70-130 |
| Toluene | 0.0438 | 0.0021 | mg/kg | 0.0521 | ND | 84 | 70-125 |
| o-Xylene | 0.0453 | 0.0021 | mg/kg | 0.0521 | ND | 87 | 70-125 |
| m,p-Xylenes | 0.0908 | 0.0021 | mg/kg | 0.104 | ND | 87 | 70-125 |
| Xylenes, Total | 0.136 | 0.0042 | mg/kg | 0.156 | ND | 87 | 70-125 |
| Di-isopropyl Ether (DIPE) | 0.0543 | 0.0052 | mg/kg | 0.0521 | ND | 104 | 60-145 |
| Ethyl tert-Butyl Ether (ETBE) | 0.0526 | 0.0052 | mg/kg | 0.0521 | ND | 101 | 60-140 |
| tert-Amyl Methyl Ether (TAME) | 0.0505 | 0.0052 | mg/kg | 0.0521 | ND | 97 | 60-145 |
| Methyl-tert-butyl Ether (MTBE) | 0.0477 | 0.0052 | mg/kg | 0.0521 | ND | 92 | 55-150 |
| tert-Butanol (TBA) | 0.305 | 0.052 | mg/kg | 0.260 | ND | 117 | 65-140 |
| Ethanol | 0.638 | 0.31 | mg/kg | 0.521 | ND | 122 | 25-160 |
| Surrogate: Dibromoformmethane | 0.0562 | | mg/kg | 0.0521 | | 108 | 80-125 |
| Surrogate: Toluene-d8 | 0.0509 | | mg/kg | 0.0521 | | 98 | 80-120 |
| Surrogate: 4-Bromofluorobenzene | 0.0565 | | mg/kg | 0.0521 | | 108 | 80-120 |

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 16 of 21>



Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino

Report Number: IOK1265

Sampled: 11/14/05
 Received: 11/14/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|

Batch: SK16003 Extracted: 11/16/05

Matrix Spike Dup Analyzed: 11/16/2005 (SK16003-MSD1)

| | | | | | | | | | |
|--|--------|--------|-------|--------|----|-----|--------|---|----|
| Benzene | 0.0452 | 0.0022 | mg/kg | 0.0551 | ND | 82 | 65-130 | 8 | 20 |
| Ethylbenzene | 0.0507 | 0.0022 | mg/kg | 0.0551 | ND | 92 | 70-130 | 8 | 25 |
| Toluene | 0.0477 | 0.0022 | mg/kg | 0.0551 | ND | 87 | 70-125 | 9 | 20 |
| o-Xylene | 0.0490 | 0.0022 | mg/kg | 0.0551 | ND | 89 | 70-125 | 8 | 25 |
| m,p-Xylenes | 0.0989 | 0.0022 | mg/kg | 0.110 | ND | 90 | 70-125 | 9 | 25 |
| Xylenes, Total | 0.148 | 0.0044 | mg/kg | 0.165 | ND | 90 | 70-125 | 8 | 25 |
| Di-isopropyl Ether (DIPE) | 0.0576 | 0.0055 | mg/kg | 0.0551 | ND | 105 | 60-145 | 6 | 25 |
| Ethyl tert-Butyl Ether (ETBE) | 0.0555 | 0.0055 | mg/kg | 0.0551 | ND | 101 | 60-140 | 5 | 30 |
| tert-Amyl Methyl Ether (TAME) | 0.0529 | 0.0055 | mg/kg | 0.0551 | ND | 96 | 60-145 | 5 | 25 |
| Methyl-tert-butyl Ether (MTBE) | 0.0500 | 0.0055 | mg/kg | 0.0551 | ND | 91 | 55-150 | 5 | 35 |
| tert-Butanol (TBA) | 0.324 | 0.055 | mg/kg | 0.275 | ND | 118 | 65-140 | 6 | 30 |
| Ethanol | 0.673 | 0.33 | mg/kg | 0.551 | ND | 122 | 25-160 | 5 | 40 |
| <i>Surrogate: Dibromoiodomethane</i> | 0.0580 | | mg/kg | 0.0551 | | 105 | 80-125 | | |
| <i>Surrogate: Toluene-d8</i> | 0.0541 | | mg/kg | 0.0551 | | 98 | 80-120 | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0600 | | mg/kg | 0.0551 | | 109 | 80-120 | | |

Batch: SK16018 Extracted: 11/16/05

Blank Analyzed: 11/16/2005 (SK16018-BLK1)

| | | | | | | | |
|--|--------|--------|-------|--------|--|-----|--------|
| Benzene | ND | 0.0020 | mg/kg | | | | |
| Ethylbenzene | ND | 0.0020 | mg/kg | | | | |
| Toluene | ND | 0.0020 | mg/kg | | | | |
| o-Xylene | ND | 0.0020 | mg/kg | | | | |
| m,p-Xylenes | ND | 0.0020 | mg/kg | | | | |
| Xylenes, Total | ND | 0.0040 | mg/kg | | | | |
| Di-isopropyl Ether (DIPE) | ND | 0.0050 | mg/kg | | | | |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.0050 | mg/kg | | | | |
| tert-Amyl Methyl Ether (TAME) | ND | 0.0050 | mg/kg | | | | |
| Methyl-tert-butyl Ether (MTBE) | ND | 0.0050 | mg/kg | | | | |
| tert-Butanol (TBA) | ND | 0.050 | mg/kg | | | | |
| Ethanol | ND | 0.30 | mg/kg | | | | |
| <i>Surrogate: Dibromoiodomethane</i> | 0.0503 | | mg/kg | 0.0500 | | 101 | 80-125 |
| <i>Surrogate: Toluene-d8</i> | 0.0516 | | mg/kg | 0.0500 | | 103 | 80-120 |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0494 | | mg/kg | 0.0500 | | 99 | 80-120 |

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 17 of 21>



Del Mar Analytical

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Aaron Baird

Project ID: ARCO 3081, Chino

Report Number: IOK1265

17461 Denian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-1667 FAX (909) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Sampled: 11/14/05

Received: 11/14/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|

Batch: 5K16018 Extracted: 11/16/05

LCS Analyzed: 11/16/2005 (5K16018-BS1)

| | | | | | | | |
|---------------------------------------|---------------|--------|--------------|---------------|--|------------|---------------|
| Benzene | 0.0534 | 0.0020 | mg/kg | 0.0500 | | 107 | 65-120 |
| Ethylbenzene | 0.0538 | 0.0020 | mg/kg | 0.0500 | | 108 | 70-125 |
| Toluene | 0.0547 | 0.0020 | mg/kg | 0.0500 | | 109 | 70-125 |
| o-Xylene | 0.0517 | 0.0020 | mg/kg | 0.0500 | | 103 | 70-125 |
| m,p-Xylenes | 0.106 | 0.0020 | mg/kg | 0.100 | | 106 | 70-125 |
| Xylenes, Total | 0.158 | 0.0040 | mg/kg | 0.150 | | 105 | 70-125 |
| Di-isopropyl Ether (DIPE) | 0.0544 | 0.0050 | mg/kg | 0.0500 | | 109 | 60-135 |
| Ethyl tert-Butyl Ether (ETBE) | 0.0525 | 0.0050 | mg/kg | 0.0500 | | 105 | 60-135 |
| tert-Amyl Methyl Ether (TAME) | 0.0537 | 0.0050 | mg/kg | 0.0500 | | 107 | 60-140 |
| Methyl-tert-butyl Ether (MTBE) | 0.0518 | 0.0050 | mg/kg | 0.0500 | | 104 | 55-140 |
| tert-Butanol (TBA) | 0.252 | 0.050 | mg/kg | 0.250 | | 101 | 65-135 |
| Ethanol | 0.497 | 0.30 | mg/kg | 0.500 | | 99 | 35-160 |
| <i>Surrogate: Dibromoformomethane</i> | <i>0.0515</i> | | <i>mg/kg</i> | <i>0.0500</i> | | <i>103</i> | <i>80-125</i> |
| <i>Surrogate: Toluene-d8</i> | <i>0.0526</i> | | <i>mg/kg</i> | <i>0.0500</i> | | <i>105</i> | <i>80-120</i> |
| <i>Surrogate: 4-Bromoformobenzene</i> | <i>0.0504</i> | | <i>mg/kg</i> | <i>0.0500</i> | | <i>101</i> | <i>80-120</i> |

Matrix Spike Analyzed: 11/16/2005 (5K16018-MS1)

Source: IOK1288-05

| | | | | | | | |
|---------------------------------------|---------------|--------|--------------|---------------|----|------------|---------------|
| Benzene | 0.0475 | 0.0019 | mg/kg | 0.0478 | ND | 99 | 65-130 |
| Ethylbenzene | 0.0482 | 0.0019 | mg/kg | 0.0478 | ND | 101 | 70-130 |
| Toluene | 0.0478 | 0.0019 | mg/kg | 0.0478 | ND | 100 | 70-125 |
| o-Xylene | 0.0468 | 0.0019 | mg/kg | 0.0478 | ND | 98 | 70-125 |
| m,p-Xylenes | 0.0971 | 0.0019 | mg/kg | 0.0956 | ND | 102 | 70-125 |
| Xylenes, Total | 0.144 | 0.0038 | mg/kg | 0.143 | ND | 101 | 70-125 |
| Di-isopropyl Ether (DIPE) | 0.0498 | 0.0048 | mg/kg | 0.0478 | ND | 104 | 60-145 |
| Ethyl tert-Butyl Ether (ETBE) | 0.0490 | 0.0048 | mg/kg | 0.0478 | ND | 103 | 60-140 |
| tert-Amyl Methyl Ether (TAME) | 0.0493 | 0.0048 | mg/kg | 0.0478 | ND | 103 | 60-145 |
| Methyl-tert-butyl Ether (MTBE) | 0.0473 | 0.0048 | mg/kg | 0.0478 | ND | 99 | 55-150 |
| tert-Butanol (TBA) | 0.228 | 0.048 | mg/kg | 0.239 | ND | 95 | 65-140 |
| Ethanol | 0.480 | 0.29 | mg/kg | 0.478 | ND | 100 | 25-160 |
| <i>Surrogate: Dibromoformomethane</i> | <i>0.0499</i> | | <i>mg/kg</i> | <i>0.0478</i> | | <i>104</i> | <i>80-125</i> |
| <i>Surrogate: Toluene-d8</i> | <i>0.0493</i> | | <i>mg/kg</i> | <i>0.0478</i> | | <i>103</i> | <i>80-120</i> |
| <i>Surrogate: 4-Bromoformobenzene</i> | <i>0.0482</i> | | <i>mg/kg</i> | <i>0.0478</i> | | <i>101</i> | <i>80-120</i> |

Del Mar Analytical, Irvine
Pat Abe
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 18 of 21>



Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
 1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
 9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
 9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
 2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
 27141 Aliso Creek Road, Suite 270
 Aliso Viejo, CA 92656
 Attention: Aaron Baird

Project ID: ARCO 3081, Chino

Report Number: IOK1265

Sampled: 11/14/05

Received: 11/14/05

METHOD BLANK/QC DATA

BTEX/OXYGENATES by GC/MS (EPA 5035/8260B)

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Data Qualifiers |
|---|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-----------------|
| <u>Batch: 5K16018 Extracted: 11/16/05</u> | | | | | | | | | | |
| Matrix Spike Dup Analyzed: 11/16/2005 (5K16018-MSD1) | | | | | | | | | | |
| Source: IOK1288-05 | | | | | | | | | | |
| Benzene | 0.0489 | 0.0019 | mg/kg | 0.0484 | ND | 101 | 65-130 | 3 | 20 | |
| Ethylbenzene | 0.0451 | 0.0019 | mg/kg | 0.0484 | ND | 93 | 70-130 | 7 | 25 | |
| Toluene | 0.0487 | 0.0019 | mg/kg | 0.0484 | ND | 101 | 70-125 | 2 | 20 | |
| o-Xylene | 0.0422 | 0.0019 | mg/kg | 0.0484 | ND | 87 | 70-125 | 10 | 25 | |
| m,p-Xylenes | 0.0893 | 0.0019 | mg/kg | 0.0969 | ND | 92 | 70-125 | 8 | 25 | |
| Xylenes, Total | 0.132 | 0.0039 | mg/kg | 0.145 | ND | 91 | 70-125 | 9 | 25 | |
| Di-isopropyl Ether (DIPE) | 0.0494 | 0.0048 | mg/kg | 0.0484 | ND | 102 | 60-145 | 1 | 25 | |
| Ethyl tert-Butyl Ether (ETBE) | 0.0481 | 0.0048 | mg/kg | 0.0484 | ND | 99 | 60-140 | 2 | 30 | |
| tert-Amyl Methyl Ether (TAME) | 0.0486 | 0.0048 | mg/kg | 0.0484 | ND | 100 | 60-145 | 1 | 25 | |
| Methyl-tert-butyl Ether (MTBE) | 0.0466 | 0.0048 | mg/kg | 0.0484 | ND | 96 | 55-150 | 1 | 35 | |
| tert-Butanol (TBA) | 0.235 | 0.048 | mg/kg | 0.242 | ND | 97 | 65-140 | 3 | 30 | |
| Ethanol | 0.466 | 0.29 | mg/kg | 0.484 | ND | 96 | 25-160 | 3 | 40 | |
| <i>Surrogate: Dibromofluoromethane</i> | 0.0487 | | mg/kg | 0.0484 | | 101 | 80-125 | | | |
| <i>Surrogate: Toluene-d8</i> | 0.0503 | | mg/kg | 0.0484 | | 104 | 80-120 | | | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 0.0424 | | mg/kg | 0.0484 | | 88 | 80-120 | | | |

Del Mar Analytical, Irvine
 Pat Abe
 Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

IOK1265 <Page 19 of 21>



Del Mar Analytical

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Aaron Baird

Project ID: ARCO 3081, Chino

Report Number: IOK1265

17461 Delian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-1667 FAX (909) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Sampled: 11/14/05
Received: 11/14/05

DATA QUALIFIERS AND DEFINITIONS

- DU** Insufficient sample quantity for matrix spike/dup matrix spike
ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD.
The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

For Volatile Fuel Hydrocarbons (C6-C12):

Volatile Fuel Hydrocarbons (C6-C12) are quantitated against a gasoline standard.

8015 Analysis EDF Parlabel Cross Reference

| Analyte | EDF | Parlabel |
|-------------------------------------|-----|----------|
| Volatile Fuel Hydrocarbons (C6-C12) | | GROC6C12 |

Del Mar Analytical, Irvine
Pat Abe
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from Del Mar Analytical.*

IOK1265 <Page 20 of 21>



Del Mar Analytical

17461 Derian Ave., Suite 100, Irvine, CA 92614 (949) 261-1022 FAX (949) 260-3297
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (009) 370-4667 FAX (009) 370-1046
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2520 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

Delta Env. Consultants - Aliso Viejo
27141 Aliso Creek Road, Suite 270
Aliso Viejo, CA 92656
Attention: Aaron Baird

Project ID: ARCO 3081, Chino
Report Number: IOK1265

Sampled: 11/14/05
Received: 11/14/05

Certification Summary

Del Mar Analytical, Irvine

| Method | Matrix | Nelac | California |
|-----------|--------|-------|------------|
| EDD | Soil | | |
| EPA 5035 | Soil | | |
| EPA 8015B | Soil | X | X |
| EPA 8260B | Soil | X | X |

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for Del Mar Analytical may be obtained by contacting the laboratory or visiting our website at www.dmalabs.com.

Del Mar Analytical, Irvine
Pat Abe
Project Manager

*The results pertain only to the samples tested in the laboratory. This report shall not be reproduced,
except in full, without written permission from Del Mar Analytical.*

IOK1265 <Page 21 of 21>



Chain of Custody Record

Project Name: ARCO 3081
 BP BU/AR Region/Buros Segment: Remediation Management, WEST, Desert
 State or Lead Regulatory Agency: RWQCB-SA

Requested Due Date (mm/dd/yy): 2005

COC TRACKING No.: COC-1265

BPI/AR Facility No.: 3081
 BPI/AR Facility Address: 12201 MOUNTAIN AVE
 CHINO, CA
 Site Lat/Long: _____
 California Global ID #: _____
 Enviro Project No.: _____
 940-#261-1022

Provision by ARCP: _____

Phase AR BS: _____

Sub Phase Task: _____

Cost Element: _____

(714) 378-5105

Lab Name: _____

Lab Address: 17461 derian avenue, irvine, ca

Lat/Long: _____

State: _____

City: _____

Zip: _____

Phone: _____

Fax: _____

Enviro Project Name: _____

Address: _____

City: _____

State: _____

Zip: _____

Phone: _____

Fax: _____

Lab Bottle Order No.: _____

Matrix: _____

Sample Description: _____

Date: _____

Time: _____

Soil/Solid: _____

Water/Liquid: _____

Air: _____

HCl: _____

H₂SO₄: _____

ICP: _____

Uptake/Preserved: _____

No. of containers: _____

Laboratory Tracking No.: 1265

Preservatives: _____

Requested Analysis: _____

Sample Point Lat/Long and Comments: _____

BP level 1

On-site Time: _____

Temp: _____

Off-site Time: _____

Temp: _____

Sky Conditions: _____

Meteorological Events: _____

Wind Speed: _____

Direction: _____

Consultant/Contractor: _____

Address: _____

27141 also creek road

also viejo, ca 92656

e-mail: _____

ckuhmann@deltaenv.com

Consultant/Contractor Project No.: _____

Consultant/Contractor Tel/Fax: _____

AARON BARD

Consultant/Contractor M: _____

Invoice #: _____

BP or AR Co (Circle one)

Report Type & QC level: _____

On-site Time: _____

Temp: _____

Off-site Time: _____

Temp: _____

Sky Conditions: _____

Meteorological Events: _____

Wind Speed: _____

Direction: _____

Consultant/Contractor: _____

Address: _____

27141 also creek road

also viejo, ca 92656

e-mail: _____

ckuhmann@deltaenv.com

Consultant/Contractor Project No.: _____

Consultant/Contractor Tel/Fax: _____

949-360-5795

Consultant/Contractor M: _____

Invoice #: _____

BP or AR Co (Circle one)

Report Type & QC level: _____

On-site Time: _____

Temp: _____

Off-site Time: _____

Temp: _____

Sky Conditions: _____

Meteorological Events: _____

Wind Speed: _____

Direction: _____

Consultant/Contractor: _____

Address: _____

27141 also creek road

also viejo, ca 92656

e-mail: _____

ckuhmann@deltaenv.com

Consultant/Contractor Project No.: _____

Consultant/Contractor Tel/Fax: _____

949-360-5795

Consultant/Contractor M: _____

Invoice #: _____

BP or AR Co (Circle one)

Report Type & QC level: _____

On-site Time: _____

Temp: _____

Off-site Time: _____

Temp: _____

Sky Conditions: _____

Meteorological Events: _____

Wind Speed: _____

Direction: _____

Consultant/Contractor: _____

Address: _____

27141 also creek road

also viejo, ca 92656

e-mail: _____

ckuhmann@deltaenv.com

Consultant/Contractor Project No.: _____

Consultant/Contractor Tel/Fax: _____

949-360-5795

Consultant/Contractor M: _____

Invoice #: _____

BP or AR Co (Circle one)

Report Type & QC level: _____

On-site Time: _____

Temp: _____

Off-site Time: _____

Temp: _____

Sky Conditions: _____

Meteorological Events: _____

Wind Speed: _____

Direction: _____

Consultant/Contractor: _____

Address: _____

27141 also creek road

also viejo, ca 92656

e-mail: _____

ckuhmann@deltaenv.com

Consultant/Contractor Project No.: _____

Consultant/Contractor Tel/Fax: _____

949-360-5795

Consultant/Contractor M: _____

Invoice #: _____

BP or AR Co (Circle one)

Report Type & QC level: _____

On-site Time: _____

Temp: _____

Off-site Time: _____

Temp: _____

Sky Conditions: _____

Meteorological Events: _____

Wind Speed: _____

Direction: _____

Consultant/Contractor: _____

Address: _____

27141 also creek road

also viejo, ca 92656

e-mail: _____

ckuhmann@deltaenv.com

Consultant/Contractor Project No.: _____

Consultant/Contractor Tel/Fax: _____

949-360-5795

Consultant/Contractor M: _____

Invoice #: _____

BP or AR Co (Circle one)

Report Type & QC level: _____

On-site Time: _____

Temp: _____

Off-site Time: _____

Temp: _____

Sky Conditions: _____

Meteorological Events: _____

Wind Speed: _____

Direction: _____

Consultant/Contractor: _____

Address: _____

27141 also creek road

also viejo, ca 92656

e-mail: _____

ckuhmann@deltaenv.com

Consultant/Contractor Project No.: _____

Consultant/Contractor Tel/Fax: _____

949-360-5795

Consultant/Contractor M: _____

Invoice #: _____

BP or AR Co (Circle one)

Report Type & QC level: _____

On-site Time: _____

Temp: _____

Off-site Time: _____

Temp: _____

Sky Conditions: _____

Meteorological Events: _____

Wind Speed: _____

Direction: _____

Consultant/Contractor: _____

Address: _____

27141 also creek road

also viejo, ca 92656

e-mail: _____

ckuhmann@deltaenv.com

Consultant/Contractor Project No.: _____

Consultant/Contractor Tel/Fax: _____

949-360-5795

Consultant/Contractor M: _____

Invoice #: _____

BP or AR Co (Circle one)

Report Type & QC level: _____

On-site Time: _____

Temp: _____

Off-site Time: _____

Temp: _____

Sky Conditions: _____

Meteorological Events: _____

Wind Speed: _____

Direction: _____

Consultant/Contractor: _____

Address: _____

27141 also creek road

also viejo, ca 92656

e-mail: _____

ckuhmann@deltaenv.com

Consultant/Contractor Project No.: _____

Consultant/Contractor Tel/Fax: _____

949-360-5795

Consultant/Contractor M: _____

Invoice #: _____

BP or AR Co (Circle one)

Report Type & QC level: _____

On-site Time: _____

Temp: _____

Off-site Time: _____

Temp: _____

Sky Conditions: _____

Meteorological Events: _____

Wind Speed: _____

Direction: _____

Consultant/Contractor: _____

Address: _____

27141 also creek road

also viejo, ca 92656

e-mail: _____

ckuhmann@deltaenv.com

Consultant/Contractor Project No.: _____

Consultant/Contractor Tel/Fax: _____

949-360-5795

Consultant/Contractor M: _____

Invoice #: _____

BP or AR Co (Circle one)

Report Type & QC level: _____

On-site Time: _____

Temp: _____

Off-site Time: _____

Temp: _____

Sky Conditions: _____

Meteorological Events: _____



Chain of Custody Record

Project Name

ARCO 3081

BP BU/AR Region/Enviro Segment:

Remediation Management, WEST, Desert

State or Lead Regulatory Agency

RWQCB-SA

Requested Due Date (mm/dd/yy)

standard 10 day

COC TRACKING No.

2005

Lab Name:

BPIAR Facility No:

Lab Address:

BPIAR Facility Address:

Site Lat/Long:

California Global ID #:

Lab PM:

Project No.:

Tele/Fax:

BPIAR Project No.:

BPIAR RM Contact Name:

Bobby J.

Address:

6 Centerpointe Drive, La

Phone/Fax:

Palma, CA

Cost Element:

(714)378-5105

Lab Bottle Order No.:

3081

Matrix

12201 MOUNTAIN AVE

Sample Description

CHINO, CA

Item No.

Date

Time

10:49

Water/Liquid

10:52

Soil/Solid

10:52

Air

10:52

HCl

10K1265

UHPC/Preserved

H₂SO₄

No. of containers

X

Methanol

X

Laboratory Tracking No.

X

Preservatives

X

BTEX 8021

X

BTEX/TPH

X

BTEX/Oxy/TPH

X

EPA 8270

X

EPA 8260 tpx

X

EPA 8015 tphg

X

EPA 8260 oxy/etoh

X

P.D = Opxm

X

Sample Point Lat/Long and Comments

27141 aliso creek road
aliso viejo, ca 92656
ckuhlmann@deltaenv.com

Accepted By / Affiliation(Sign)

C. B.

Date

6/14/05

Time

13:00

Signature

C. B.

Special Instructions:

30°C (circle one)

Cooler Temperature on Receipt

Trip Blank

Y (N) Circle one)

Trip Blank

Y (N) Circle one)

Sampler's Full Name:

Susan Nielsen

Sampler's Company:

Delta Env.

Shipment Date:

11/10/05

Shipment Method:

Delivery

Shipment Tracking No.:

Custody Seals In Place (circle one)

Y (N) Temp Blank (circle one)

Distribution: White Copy - Laboratory / Yellow Copy - BP/GEM / Pink Copy - Consultant/Contractor

BP COC Rev. 4 10/1/04